

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: P1213353

Luminaire Tested: 2SNLED-LD5-43HL-RM-UNV-L935-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213353
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: 2SNLED-LD5-43HL-RM-UNV-L935-CD1-U
Description: 2FT LINEAR SNLED LED FIXTURE
METALIC FINISH REFLECTOR
Light Source: -
Ballast/Driver: -

Summary

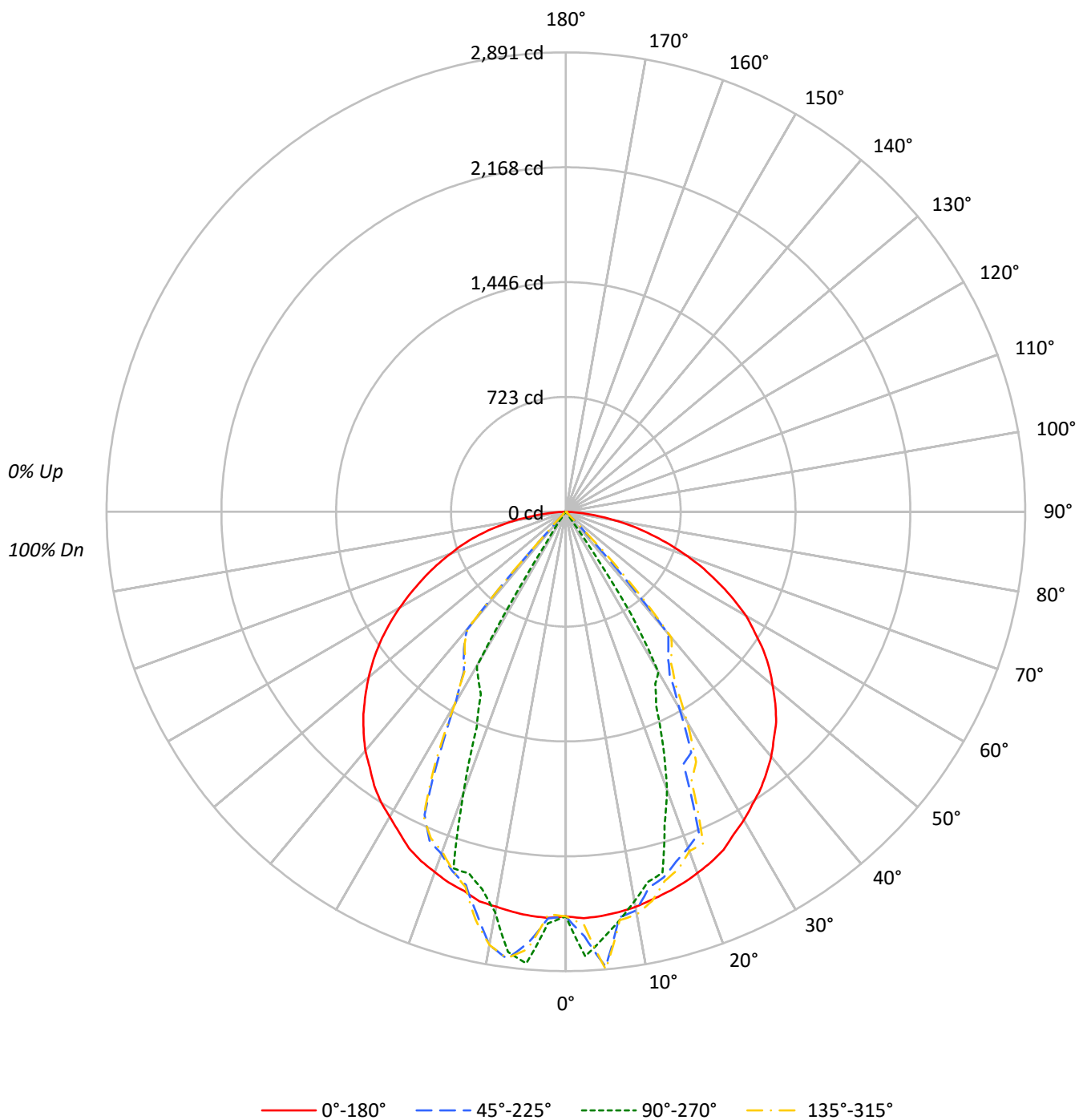
Lumens per Lamp: N/A
Luminaire Lumens: 3620.0 lumens
Efficiency: N/A
Efficacy: 100.6 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 0.81 / 0.97
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 2' x H: 0.12')
CIE Type: Direct

Input Watts (W): 36
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



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20			
RC	80				70				50				30				10			0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	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°	41147	41147	41147	41147
5°	41202	42319	41189	44815
10°	40990	38294	40966	39399
15°	40765	35742	40664	35835
20°	40693	28153	40577	28499
25°	40686	20374	40486	19225
30°	40366	17872	39939	17180
35°	40339	394	39747	478
40°	40314	85	39350	85
45°	40271	52	38758	38
50°	39746	40	37923	40
55°	39253	28	36842	28
60°	38197	29	35210	29
65°	35814	49	33264	32
70°	32723	54	31154	54
75°	28279	60	28745	60
80°	22051	68	23309	68
85°	11823	81	12071	81

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2°

Vertical Angle: 45°

Luminance: 43498 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	255.4	7.1
10°-20°	696.7	19.2
20°-30°	886.5	24.5
30°-40°	748.9	20.7
40°-50°	489.6	13.5
50°-60°	308.5	8.5
60°-70°	164.2	4.5
70°-80°	59.9	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°	1838.6	50.8
0°-40°	2587.5	71.5
0°-60°	3385.6	93.5
0°-90°	3620.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3620.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2546	2546	2546	2546	2546	
5°	2554	2694	2553	2853	2554	243
15°	2477	2351	2471	2357	2477	700
25°	2348	1342	2336	1267	2348	1080
35°	2134	25	2103	31	2134	1335
45°	1872	3	1802	2	1872	1440
55°	1517	2	1424	2	1517	1352
65°	1062	2	986	2	1062	1052
75°	558	2	568	2	558	593
85°	109	2	112	2	109	138
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°	2545.9	2545.9	2545.9	2545.9	2545.9	2545.9	2545.9	2545.9	2545.9	2545.9	2545.9
2.5°	2560.4	2561.9	2562.7	2564.2	2566.5	2567.2	2568.8	2567.2	2567.2	2567.2	2567.2
5°	2553.5	2556.6	2558.8	2561.9	2567.2	2568.0	2574.1	2574.9	2577.9	2584.1	2588.6
7.5°	2542.0	2545.1	2549.7	2557.3	2565.0	2573.4	2584.1	2595.5	2611.6	2626.8	2645.9
10°	2525.2	2529.0	2534.4	2541.3	2578.7	2584.1	2607.7	2640.6	2649.8	2697.9	2733.8
12.5°	2500.8	2513.8	2527.5	2533.6	2569.5	2626.1	2705.5	2689.5	2671.9	2829.3	2827.0
15°	2477.1	2494.7	2487.8	2537.5	2570.3	2668.9	2635.3	2707.1	2838.5	2806.4	2807.9
17.5°	2451.9	2455.7	2493.9	2535.2	2594.0	2644.4	2685.7	2784.2	2810.2	2812.5	2784.2
20°	2419.8	2438.1	2493.9	2531.3	2630.7	2654.4	2743.7	2794.2	2783.5	2757.5	2709.4
22.5°	2386.9	2442.7	2499.2	2552.0	2621.5	2684.9	2729.2	2752.9	2697.1	2594.8	2539.7
25°	2348.0	2380.8	2454.9	2532.1	2619.2	2655.9	2681.9	2643.7	2571.1	2479.4	2386.9
27.5°	2287.6	2340.3	2435.1	2522.2	2600.9	2645.2	2603.2	2511.5	2394.6	2334.2	2292.2
30°	2241.0	2309.8	2387.7	2471.7	2553.5	2579.5	2472.5	2367.8	2287.6	2227.2	2218.1
32.5°	2184.5	2282.3	2356.4	2436.6	2505.4	2471.0	2367.1	2231.8	2165.4	2142.4	2151.6
35°	2134.0	2208.1	2305.2	2383.9	2433.5	2356.4	2192.1	2108.0	2076.0	2088.9	2072.1
37.5°	2073.7	2171.5	2260.9	2328.9	2312.1	2195.9	2056.9	2003.4	2007.2	1996.5	1964.4
40°	2011.0	2104.2	2197.4	2261.6	2202.8	2025.5	1933.1	1921.6	1923.9	1889.5	1843.7
42.5°	1937.7	2022.5	2115.7	2173.8	2046.9	1908.6	1846.0	1847.5	1827.6	1779.5	1755.1
45°	1872.0	1949.9	2046.9	2052.3	1896.4	1781.0	1762.7	1742.8	1698.5	1682.5	1664.1
47.5°	1787.9	1874.2	1954.5	1925.4	1748.9	1677.1	1663.4	1619.8	1597.7	1585.4	1570.1
50°	1698.5	1785.6	1859.0	1776.4	1609.9	1593.1	1548.0	1513.6	1498.3	1485.3	1471.6
52.5°	1613.7	1685.5	1760.4	1618.3	1502.9	1486.9	1435.7	1415.8	1400.5	1386.0	1383.0
55°	1517.4	1580.8	1632.0	1467.8	1400.5	1363.1	1326.4	1312.7	1298.1	1291.3	1302.7
57.5°	1408.2	1480.0	1472.3	1319.5	1289.7	1235.5	1221.7	1212.6	1201.9	1206.5	1110.9
60°	1309.6	1364.6	1327.2	1211.0	1160.6	1123.9	1111.7	1105.6	1111.7	1018.5	895.5
62.5°	1188.1	1250.0	1174.4	1084.2	1030.7	1013.1	1002.4	1010.9	921.5	819.1	789.3
65°	1062.0	1129.3	1017.7	948.2	914.6	899.3	898.5	827.5	739.6	699.9	699.9
67.5°	940.6	1010.1	866.4	808.4	795.4	796.9	752.6	644.9	620.4	593.7	516.5
70°	811.4	872.6	715.9	680.8	673.1	667.8	560.1	531.0	502.0	430.9	424.8
72.5°	683.1	712.9	575.3	566.9	565.4	469.9	448.5	398.8	365.2	356.8	353.0
75°	558.5	549.4	454.6	462.3	389.7	356.1	321.7	292.6	288.1	285.0	71.1
77.5°	440.9	395.0	358.3	311.7	278.9	236.9	230.0	225.4	148.2	53.5	43.6
80°	320.9	256.0	238.4	202.5	172.7	165.8	169.6	52.0	41.3	34.4	29.8
82.5°	204.0	163.5	133.7	116.9	113.8	49.7	36.7	29.8	26.0	22.2	18.3
85°	109.3	72.6	67.2	56.5	33.6	22.9	19.1	14.5	12.2	9.9	9.2
87.5°	34.4	29.0	23.7	19.1	11.5	7.6	6.1	5.3	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

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CANDELA DISTRIBUTION (continued):

	11°	12°	13°	14°	15°	16°	17°	18°	19°	20°	25°
0°	2545.9	2545.9	2545.9	2545.9	2545.9	2545.9	2545.9	2545.9	2545.9	2545.9	2545.9
2.5°	2565.7	2567.2	2566.5	2568.8	2568.8	2571.8	2574.1	2576.4	2581.0	2583.3	2600.9
5°	2598.6	2602.4	2613.9	2624.6	2637.5	2641.4	2663.5	2668.9	2694.8	2697.9	2783.5
7.5°	2671.9	2686.4	2713.9	2741.5	2769.0	2786.5	2817.1	2836.2	2856.8	2875.2	2943.2
10°	2760.6	2785.0	2811.7	2839.3	2855.3	2888.9	2907.3	2910.3	2905.0	2875.2	2765.1
12.5°	2847.7	2872.1	2860.6	2866.0	2885.1	2825.5	2833.9	2791.1	2820.9	2673.5	2564.2
15°	2835.4	2833.9	2805.6	2713.9	2729.2	2615.4	2569.5	2534.4	2562.7	2547.4	2530.6
17.5°	2798.8	2729.2	2680.3	2570.3	2523.7	2491.6	2492.4	2493.1	2479.4	2493.9	2451.1
20°	2643.7	2565.7	2493.1	2454.2	2440.4	2417.5	2429.0	2417.5	2418.3	2422.8	2357.1
22.5°	2437.4	2413.7	2371.6	2383.9	2379.3	2399.9	2384.6	2361.0	2368.6	2334.2	2284.5
25°	2354.1	2326.6	2325.0	2329.6	2322.7	2313.6	2299.8	2263.9	2261.6	2250.9	2228.0
27.5°	2270.0	2271.6	2276.1	2262.4	2237.9	2219.6	2199.0	2181.4	2188.3	2176.0	2144.7
30°	2212.0	2211.2	2183.7	2171.5	2126.4	2127.1	2121.8	2111.1	2104.2	2105.0	2085.1
32.5°	2129.4	2105.8	2074.4	2059.1	2055.3	2041.6	2030.9	2033.2	2038.5	2019.4	2040.0
35°	2044.6	1995.7	1991.1	1978.2	1965.9	1956.8	1960.6	1945.3	1944.5	1942.2	1774.2
37.5°	1930.8	1907.1	1904.8	1891.1	1882.6	1880.4	1865.8	1868.1	1875.0	1887.2	1512.8
40°	1836.8	1815.4	1810.1	1809.3	1791.0	1789.4	1793.3	1807.8	1817.7	1741.3	1441.8
42.5°	1735.9	1737.5	1720.7	1710.0	1712.3	1719.1	1737.5	1687.0	1461.7	1392.9	1318.0
45°	1649.6	1642.0	1632.8	1629.7	1649.6	1635.9	1434.1	1323.4	1296.6	1293.6	1083.4
47.5°	1559.5	1557.2	1553.3	1555.6	1442.5	1285.9	1240.1	1225.6	1230.1	1227.1	930.6
50°	1468.5	1471.6	1471.6	1285.2	1179.7	1153.7	1157.6	1170.5	1089.6	1017.0	867.2
52.5°	1389.8	1366.1	1170.5	1103.3	1079.6	1091.1	1063.6	962.0	888.6	845.8	802.3
55°	1243.9	1069.7	1026.1	1015.4	1023.8	922.2	859.6	793.9	774.8	770.2	745.0
57.5°	978.8	943.6	947.4	904.6	807.6	750.3	725.1	715.9	707.5	701.4	61.1
60°	865.7	875.6	801.5	709.8	670.8	663.2	657.1	648.7	647.2	636.5	39.0
62.5°	792.3	696.8	632.6	609.7	600.6	598.3	586.8	583.0	495.1	68.0	29.0
65°	597.5	558.5	546.3	541.0	531.0	531.0	440.9	69.5	56.5	48.9	26.0
67.5°	487.5	484.4	478.3	471.4	320.9	67.2	58.8	51.2	44.3	39.0	22.9
70°	412.6	411.1	374.4	68.8	57.3	50.4	44.3	39.7	36.7	32.9	20.6
72.5°	338.5	68.8	58.1	50.4	43.6	39.7	35.9	32.1	29.0	26.7	16.8
75°	52.7	46.6	41.3	37.4	34.4	30.6	27.5	25.2	24.4	21.4	11.5
77.5°	38.2	32.9	29.8	26.7	23.7	21.4	18.3	16.0	14.5	12.2	8.4
80°	26.7	23.7	21.4	17.6	15.3	13.0	11.5	9.9	9.2	7.6	3.8
82.5°	15.3	13.0	11.5	9.2	8.4	6.9	6.1	5.3	5.3	3.8	3.8
85°	6.9	6.9	5.3	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

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CANDELA DISTRIBUTION (continued):

	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°
0°	2545.9	2545.9	2545.9	2545.9	2545.9	2545.9	2545.9	2545.9	2545.9	2545.9	2545.9
2.5°	2625.3	2635.3	2654.4	2674.2	2652.1	2731.5	2725.4	2752.2	2766.7	2773.5	2789.6
5°	2859.1	2903.4	2918.0	2874.4	2849.2	2823.2	2764.4	2720.1	2725.4	2710.9	2658.2
7.5°	2854.5	2759.8	2632.2	2574.1	2569.5	2562.7	2581.0	2591.7	2593.2	2592.5	2590.9
10°	2613.1	2564.2	2555.8	2548.1	2551.2	2522.9	2509.9	2473.3	2493.1	2482.4	2486.3
12.5°	2539.7	2528.3	2483.2	2420.5	2458.0	2429.7	2413.7	2424.4	2412.1	2400.7	2396.9
15°	2496.2	2422.1	2396.9	2381.6	2370.9	2364.8	2370.1	2357.9	2354.1	2351.8	2357.1
17.5°	2406.0	2376.2	2348.7	2308.2	2309.0	2306.7	2322.0	2344.9	2346.4	2228.8	2122.6
20°	2335.0	2310.5	2275.4	2250.2	2284.5	2223.4	1987.3	1875.0	1857.4	1857.4	1860.5
22.5°	2278.4	2224.2	2226.5	2186.7	1865.1	1799.4	1800.9	1807.8	1776.4	1669.5	1658.0
25°	2201.3	2192.9	2025.5	1750.5	1752.8	1701.6	1622.9	1512.1	1392.1	1392.1	1372.3
27.5°	2143.2	1965.2	1720.7	1709.2	1537.3	1428.8	1361.6	1259.9	1246.2	1233.2	1234.7
30°	2093.5	1662.6	1668.7	1428.8	1302.0	1211.8	1206.5	1189.6	1181.2	1178.9	1170.5
32.5°	1655.0	1619.0	1396.7	1216.4	1166.7	1152.2	1145.3	1126.2	1125.5	1110.9	1010.1
35°	1551.8	1421.2	1169.0	1120.1	1105.6	1091.8	1080.4	725.1	85.6	34.4	29.8
37.5°	1434.1	1187.4	1081.1	1059.0	1045.2	772.5	77.2	26.7	19.1	13.8	12.2
40°	1215.6	1060.5	1026.9	1002.4	413.4	26.7	16.8	13.0	7.6	6.9	6.1
42.5°	1025.4	999.4	963.5	293.4	30.6	13.0	8.4	6.1	5.3	5.3	4.6
45°	959.7	936.7	388.1	29.0	19.1	6.1	5.3	5.3	4.6	3.1	3.1
47.5°	898.5	790.8	35.1	18.3	12.2	5.3	4.6	3.1	3.1	3.1	2.3
50°	833.6	43.6	24.4	13.8	7.6	3.1	3.1	3.1	3.1	2.3	2.3
52.5°	155.9	30.6	19.9	12.2	3.8	3.1	3.1	3.1	2.3	2.3	2.3
55°	36.7	24.4	18.3	10.7	3.1	3.1	3.1	2.3	2.3	2.3	1.5
57.5°	27.5	18.3	14.5	9.9	3.1	2.3	2.3	2.3	2.3	2.3	1.5
60°	22.9	13.0	11.5	9.2	2.3	2.3	2.3	2.3	2.3	2.3	1.5
62.5°	16.0	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°	7.6	2.3	1.5	1.5	2.3	2.3	2.3	2.3	2.3	2.3	2.3
75°	7.6	3.8	1.5	1.5	2.3	2.3	3.1	3.1	2.3	2.3	2.3
77.5°	5.3	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	5.3	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: P1213353

CATALOG NUMBER: 2SNLED-LD5-43HL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	85°	90°	95°	100°	105°	110°	115°	120°	125°	130°	135°
0°	2545.9	2545.9	2545.9	2545.9	2545.9	2545.9	2545.9	2545.9	2545.9	2545.9	2545.9
2.5°	2797.2	2800.3	2752.2	2735.3	2749.9	2746.8	2733.8	2685.7	2680.3	2648.2	2601.6
5°	2673.5	2694.1	2668.9	2712.4	2691.8	2712.4	2775.1	2804.1	2851.5	2880.5	2891.2
7.5°	2587.1	2591.7	2591.7	2595.5	2599.3	2600.1	2595.5	2592.5	2579.5	2563.4	2592.5
10°	2482.4	2487.8	2497.0	2495.4	2494.7	2510.7	2514.5	2547.4	2545.9	2552.0	2574.1
12.5°	2428.2	2386.9	2424.4	2414.4	2428.2	2406.8	2446.5	2439.7	2441.9	2460.3	2507.7
15°	2338.0	2351.0	2360.2	2360.2	2365.5	2361.0	2356.4	2387.7	2406.8	2407.6	2404.5
17.5°	2164.6	2066.0	2166.9	2140.9	2348.0	2353.3	2335.7	2321.2	2321.2	2332.7	2357.1
20°	1858.2	1860.5	1861.3	1871.2	1883.4	1882.6	1883.4	2184.5	2327.3	2294.5	2272.3
22.5°	1629.0	1600.7	1653.4	1649.6	1715.3	1787.9	1857.4	1850.6	1855.1	2067.6	2258.6
25°	1305.8	1342.5	1312.7	1325.6	1399.8	1486.1	1539.6	1679.4	1831.5	1820.8	1870.4
27.5°	1229.4	1219.4	1233.2	1233.2	1243.1	1254.6	1284.4	1363.1	1498.3	1640.4	1774.9
30°	1156.8	1165.2	1166.7	1180.5	1188.1	1195.8	1200.3	1230.1	1260.7	1359.3	1525.1
32.5°	868.7	761.8	1002.4	1067.4	1122.4	1135.4	1144.6	1156.8	1178.9	1193.5	1276.7
35°	25.2	25.2	26.7	30.6	39.0	262.8	1000.9	1103.3	1117.8	1136.2	1151.4
37.5°	12.2	9.2	10.7	11.5	13.8	19.1	27.5	85.6	952.8	1077.3	1094.1
40°	5.3	5.3	5.3	5.3	6.1	7.6	11.5	19.1	29.0	766.4	1033.8
42.5°	4.6	4.6	4.6	4.6	4.6	4.6	5.3	6.9	13.8	32.9	542.5
45°	3.1	3.1	2.3	3.1	3.1	3.8	4.6	4.6	6.1	20.6	37.4
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	12.2
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	9.9
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	5.3
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: P1213353

CATALOG NUMBER: 2SNLED-LD5-43HL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	140°	145°	150°	155°	160°	161°	162°	163°	164°	165°	166°
0°	2545.9	2545.9	2545.9	2545.9	2545.9	2545.9	2545.9	2545.9	2545.9	2545.9	2545.9
2.5°	2605.5	2579.5	2571.1	2553.5	2552.0	2553.5	2549.7	2544.3	2547.4	2542.0	2537.5
5°	2897.3	2827.8	2782.7	2722.4	2639.1	2620.7	2616.1	2590.2	2581.0	2577.9	2565.7
7.5°	2661.2	2788.1	2864.5	2890.4	2792.6	2769.7	2743.0	2721.6	2701.0	2662.0	2638.3
10°	2556.6	2562.7	2636.0	2721.6	2860.6	2879.7	2894.3	2847.7	2834.7	2735.3	2713.9
12.5°	2532.1	2532.9	2541.3	2593.2	2702.5	2714.7	2765.9	2793.4	2827.0	2846.1	2830.8
15°	2420.5	2482.4	2528.3	2532.9	2542.8	2564.2	2579.5	2675.0	2715.5	2824.0	2817.9
17.5°	2368.6	2388.5	2454.9	2509.2	2500.0	2492.4	2504.6	2517.6	2556.6	2665.0	2663.5
20°	2282.3	2345.7	2381.6	2438.1	2489.3	2491.6	2477.9	2470.2	2454.9	2472.5	2488.6
22.5°	2245.6	2255.5	2322.7	2362.5	2420.5	2441.2	2444.2	2445.0	2436.6	2427.4	2422.8
25°	2241.8	2210.4	2244.8	2294.5	2337.3	2359.4	2384.6	2393.0	2390.0	2390.0	2385.4
27.5°	1834.5	2200.5	2182.2	2215.0	2267.0	2282.3	2295.2	2321.2	2337.3	2348.7	2354.1
30°	1747.4	1813.1	2133.3	2137.8	2190.6	2189.0	2203.6	2224.9	2245.6	2272.3	2279.2
32.5°	1545.7	1706.9	1952.9	2060.7	2115.7	2121.0	2128.7	2134.8	2153.9	2183.7	2209.7
35°	1238.5	1554.9	1673.3	2024.0	2033.9	2044.6	2049.2	2063.7	2069.8	2082.1	2105.0
37.5°	1120.9	1285.2	1605.3	1750.5	1940.0	1949.1	1973.6	1979.7	1989.6	1999.6	2017.1
40°	1052.9	1098.0	1336.3	1563.3	1864.3	1870.4	1878.8	1894.1	1894.9	1906.3	1922.4
42.5°	998.6	1027.7	1097.2	1493.0	1810.8	1810.1	1790.2	1800.1	1804.7	1816.9	1839.1
45°	797.7	964.2	1008.6	1219.4	1441.8	1545.7	1745.1	1712.3	1711.5	1716.1	1739.8
47.5°	40.5	906.9	938.3	1006.3	1361.6	1365.4	1391.4	1609.9	1643.5	1632.8	1635.1
50°	27.5	62.7	874.1	905.4	1173.6	1268.3	1287.4	1297.4	1423.4	1564.0	1541.1
52.5°	21.4	35.9	535.6	840.5	953.5	1023.1	1146.1	1216.4	1224.0	1280.6	1472.3
55°	19.1	27.5	58.1	775.5	810.7	826.0	897.8	1020.8	1120.1	1149.9	1152.2
57.5°	16.8	25.2	39.7	350.7	737.3	740.4	752.6	795.4	884.8	966.5	1059.0
60°	15.3	22.2	31.3	60.4	670.1	677.7	680.0	691.5	702.2	757.9	864.2
62.5°	9.2	17.6	27.5	43.6	530.3	609.0	608.2	615.8	625.8	631.9	653.3
65°	7.6	13.8	23.7	36.7	64.9	81.0	492.1	547.1	553.2	561.6	565.4
67.5°	6.9	12.2	17.6	29.0	48.9	55.8	64.2	79.5	434.0	489.0	496.6
70°	6.1	8.4	14.5	24.4	39.7	42.8	48.1	55.0	64.9	80.2	392.7
72.5°	3.8	6.1	9.9	17.6	30.6	34.4	37.4	42.0	46.6	55.8	64.2
75°	1.5	4.6	8.4	13.0	23.7	26.0	28.3	31.3	35.1	41.3	45.8
77.5°	1.5	3.8	6.9	9.2	15.3	17.6	20.6	22.9	26.0	29.0	33.6
80°	5.3	3.1	4.6	6.9	10.7	11.5	13.0	14.5	16.8	19.1	22.2
82.5°	3.8	4.6	5.3	4.6	5.3	6.9	7.6	9.2	9.9	11.5	12.2
85°	3.1	3.1	3.8	3.8	3.8	3.8	3.8	3.8	4.6	5.3	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: P1213353

CATALOG NUMBER: 2SNLED-LD5-43HL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	167°	168°	169°	170°	171°	172°	173°	174°	175°	176°	177°
0°	2545.9	2545.9	2545.9	2545.9	2545.9	2545.9	2545.9	2545.9	2545.9	2545.9	2545.9
2.5°	2537.5	2535.9	2531.3	2531.3	2530.6	2533.6	2535.9	2538.2	2537.5	2542.0	2537.5
5°	2556.6	2552.7	2545.9	2539.7	2537.5	2539.0	2536.7	2539.0	2535.9	2539.7	2532.9
7.5°	2609.3	2596.3	2569.5	2558.8	2545.1	2544.3	2537.5	2535.9	2531.3	2531.3	2522.9
10°	2702.5	2639.8	2632.2	2600.1	2588.6	2532.9	2545.1	2524.5	2522.2	2512.2	2508.4
12.5°	2778.9	2730.0	2715.5	2687.2	2655.1	2542.0	2567.2	2522.9	2520.6	2500.8	2480.1
15°	2780.4	2808.7	2769.0	2691.0	2684.2	2606.2	2555.0	2539.7	2519.9	2460.3	2470.2
17.5°	2691.0	2756.0	2775.1	2758.3	2709.4	2656.6	2584.8	2554.3	2494.7	2467.9	2449.6
20°	2545.9	2611.6	2693.3	2698.7	2729.2	2691.8	2597.8	2548.1	2476.3	2429.7	2414.4
22.5°	2430.5	2478.6	2572.6	2616.1	2653.6	2666.6	2607.0	2533.6	2444.2	2399.2	2390.0
25°	2369.4	2380.1	2408.3	2459.5	2542.0	2601.6	2610.0	2532.1	2485.5	2386.9	2335.0
27.5°	2347.2	2338.0	2326.6	2352.5	2414.4	2487.0	2535.2	2548.1	2432.0	2338.0	2286.1
30°	2290.7	2296.0	2278.4	2269.3	2309.8	2384.6	2470.2	2491.6	2402.2	2305.2	2245.6
32.5°	2221.1	2230.3	2233.4	2217.3	2208.9	2260.9	2353.3	2404.5	2399.9	2258.6	2192.1
35°	2134.0	2160.0	2166.9	2167.6	2153.9	2145.5	2199.0	2305.2	2345.7	2237.2	2140.9
37.5°	2042.3	2050.0	2087.4	2097.4	2097.4	2072.1	2111.9	2196.7	2253.2	2189.0	2078.2
40°	1927.7	1952.2	1987.3	2004.9	2022.5	2024.8	2002.6	2062.2	2155.4	2139.4	2019.4
42.5°	1844.4	1860.5	1881.9	1905.6	1941.5	1950.7	1927.7	1938.4	2035.5	2077.5	1943.0
45°	1747.4	1768.8	1774.9	1800.9	1838.3	1865.1	1864.3	1842.2	1920.1	1972.0	1887.2
47.5°	1648.1	1668.7	1679.4	1692.4	1719.9	1754.3	1773.4	1763.5	1778.7	1880.4	1813.1
50°	1545.7	1557.2	1578.6	1593.1	1611.4	1631.3	1677.1	1686.3	1664.9	1745.9	1731.4
52.5°	1448.7	1452.5	1467.0	1481.5	1506.0	1520.5	1557.2	1584.7	1583.1	1606.8	1640.4
55°	1373.0	1356.2	1359.3	1370.7	1386.8	1408.9	1429.6	1472.3	1486.9	1491.4	1544.9
57.5°	1072.7	1245.4	1260.7	1259.9	1279.0	1289.0	1308.1	1336.3	1388.3	1376.8	1436.4
60°	974.9	994.0	1138.5	1155.3	1162.1	1171.3	1194.2	1220.2	1258.4	1282.9	1308.8
62.5°	743.4	859.6	903.1	1030.7	1050.6	1055.9	1071.2	1083.4	1123.2	1178.9	1168.3
65°	575.3	625.0	757.9	809.9	918.4	932.2	953.5	966.5	978.0	1042.2	1045.2
67.5°	497.4	505.0	541.0	641.0	709.8	816.0	829.0	840.5	858.0	903.9	932.2
70°	424.8	434.0	443.9	452.3	541.7	612.0	710.6	714.4	725.9	756.4	820.6
72.5°	80.2	362.9	369.0	374.4	384.3	430.9	524.9	601.3	605.9	620.4	679.3
75°	54.2	63.4	87.1	299.5	309.4	312.5	328.5	424.1	494.3	497.4	523.4
77.5°	39.0	43.6	52.7	62.7	159.7	239.9	243.7	261.3	333.9	386.6	391.2
80°	26.7	29.8	35.1	39.7	48.9	64.2	177.3	182.6	191.8	264.4	278.1
82.5°	15.3	17.6	20.6	25.2	29.0	36.7	47.4	61.1	124.5	132.9	176.5
85°	7.6	8.4	9.9	12.2	14.5	17.6	23.7	29.0	39.7	71.8	74.1
87.5°	3.8	3.8	3.8	3.8	6.1	6.9	8.4	10.7	13.8	20.6	26.7
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: P1213353

CATALOG NUMBER: 2SNLED-LD5-43HL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	178°	179°	180°	181°	182°	183°	184°	185°	186°	187°	188°
0°	2545.9	2545.9	2545.9	2545.9	2545.9	2545.9	2545.9	2545.9	2545.9	2545.9	2545.9
2.5°	2538.2	2548.9	2558.1	2560.4	2560.4	2561.9	2564.2	2565.7	2567.2	2568.8	2567.2
5°	2533.6	2545.1	2552.7	2555.0	2555.0	2559.6	2563.4	2568.0	2570.3	2570.3	2568.8
7.5°	2522.2	2530.6	2540.5	2546.6	2547.4	2555.0	2561.9	2561.1	2564.2	2565.7	2569.5
10°	2506.9	2506.9	2523.7	2528.3	2532.1	2540.5	2542.8	2547.4	2558.1	2559.6	2569.5
12.5°	2499.2	2491.6	2511.5	2513.8	2526.8	2516.1	2529.8	2534.4	2523.7	2538.2	2519.1
15°	2464.9	2474.0	2471.0	2477.9	2500.8	2488.6	2526.0	2513.8	2541.3	2508.4	2566.5
17.5°	2436.6	2435.1	2447.3	2453.4	2458.0	2484.0	2493.9	2507.7	2518.3	2509.2	2532.1
20°	2416.0	2403.7	2412.9	2419.8	2435.8	2455.7	2461.8	2441.2	2477.1	2538.2	2552.7
22.5°	2377.0	2368.6	2379.3	2379.3	2403.7	2400.7	2423.6	2410.6	2444.2	2515.3	2589.4
25°	2324.3	2325.0	2336.5	2350.3	2354.8	2389.2	2401.4	2418.3	2460.3	2545.1	2590.2
27.5°	2270.8	2266.2	2273.1	2301.4	2325.0	2350.3	2354.1	2411.4	2468.7	2526.8	2566.5
30°	2217.3	2212.7	2217.3	2237.9	2266.2	2283.0	2325.0	2401.4	2454.9	2494.7	2532.1
32.5°	2160.0	2155.4	2166.1	2181.4	2231.1	2233.4	2316.6	2388.5	2430.5	2459.5	2452.6
35°	2098.9	2092.8	2102.7	2126.4	2172.2	2189.0	2276.1	2329.6	2377.0	2390.8	2358.7
37.5°	2025.5	2014.8	2027.1	2059.9	2108.0	2156.9	2229.5	2291.4	2316.6	2280.0	2241.8
40°	1949.1	1941.5	1962.9	1979.7	2036.2	2104.2	2187.5	2231.1	2215.0	2173.0	2131.0
42.5°	1881.1	1865.1	1884.2	1916.3	1980.4	2057.6	2124.9	2149.3	2111.1	2049.2	2000.3
45°	1797.8	1778.7	1801.7	1844.4	1913.2	2001.1	2053.8	2045.4	1980.4	1927.0	1859.7
47.5°	1710.7	1687.8	1710.7	1761.9	1839.1	1932.3	1970.5	1932.3	1850.6	1783.3	1729.1
50°	1625.2	1598.4	1620.6	1697.7	1773.4	1845.2	1844.4	1770.3	1721.4	1648.1	1600.7
52.5°	1540.3	1502.1	1524.3	1608.4	1684.0	1765.7	1705.4	1636.6	1577.8	1513.6	1498.3
55°	1435.7	1394.4	1424.2	1546.5	1604.5	1652.7	1556.4	1496.0	1438.0	1405.9	1386.8
57.5°	1336.3	1291.3	1317.2	1461.7	1504.4	1516.7	1428.0	1342.5	1308.1	1297.4	1269.9
60°	1234.0	1182.8	1207.2	1373.8	1403.6	1353.9	1266.8	1200.3	1193.5	1172.1	1150.7
62.5°	1136.2	1079.6	1094.9	1264.5	1278.3	1188.1	1107.9	1090.3	1073.5	1052.1	1040.7
65°	1023.8	965.0	986.4	1148.4	1135.4	1019.3	974.2	970.4	948.2	930.6	947.4
67.5°	920.7	851.2	881.0	1021.6	962.7	868.0	849.6	840.5	822.9	832.8	656.3
70°	807.6	732.0	772.5	884.8	797.7	735.0	728.2	714.4	715.2	568.5	479.1
72.5°	681.5	615.8	674.7	735.0	631.1	612.8	602.8	601.3	485.2	394.3	372.1
75°	570.8	504.3	567.7	590.6	502.8	490.5	489.8	405.0	318.6	304.1	297.2
77.5°	445.4	394.3	454.6	420.2	385.9	372.1	333.9	250.6	239.9	230.0	86.3
80°	300.3	304.1	339.2	289.6	275.1	234.6	184.9	177.3	152.8	61.1	48.1
82.5°	182.6	229.2	216.2	181.1	177.3	127.6	116.9	59.6	44.3	35.1	30.6
85°	94.7	116.1	111.6	98.6	73.3	65.7	36.7	28.3	22.9	17.6	14.5
87.5°	32.1	42.8	41.3	32.9	25.2	19.9	13.0	10.7	7.6	6.1	5.3
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: P1213353

CATALOG NUMBER: 2SNLED-LD5-43HL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	189°	190°	191°	192°	193°	194°	195°	196°	197°	198°	199°
0°	2545.9	2545.9	2545.9	2545.9	2545.9	2545.9	2545.9	2545.9	2545.9	2545.9	2545.9
2.5°	2565.7	2565.7	2564.2	2565.7	2566.5	2565.0	2565.0	2566.5	2567.2	2568.0	2571.8
5°	2569.5	2571.1	2573.4	2577.9	2578.7	2587.9	2591.7	2594.0	2596.3	2597.0	2591.7
7.5°	2577.9	2583.3	2587.9	2587.1	2581.8	2567.2	2562.7	2558.8	2565.7	2583.3	2603.9
10°	2585.6	2561.1	2515.3	2577.9	2558.8	2576.4	2628.4	2639.8	2675.0	2724.6	2739.2
12.5°	2532.9	2600.1	2614.6	2544.3	2674.2	2626.1	2683.4	2733.8	2748.3	2798.8	2768.2
15°	2589.4	2622.3	2644.4	2714.7	2707.1	2748.3	2764.4	2754.4	2756.7	2769.7	2804.1
17.5°	2588.6	2654.4	2668.9	2716.2	2748.3	2749.1	2744.5	2739.9	2752.2	2762.1	2741.5
20°	2633.0	2654.4	2682.6	2701.7	2707.8	2715.5	2730.0	2718.5	2695.6	2673.5	2664.3
22.5°	2610.8	2658.9	2683.4	2686.4	2682.6	2658.9	2637.5	2605.5	2594.8	2583.3	2587.1
25°	2615.4	2637.5	2634.5	2622.3	2606.2	2561.9	2551.2	2537.5	2516.8	2467.2	2422.1
27.5°	2582.5	2571.1	2557.3	2527.5	2498.5	2474.8	2448.1	2403.7	2367.1	2313.6	2293.7
30°	2527.5	2481.7	2448.1	2430.5	2402.2	2362.5	2322.0	2267.7	2221.1	2210.4	2200.5
32.5°	2422.1	2377.0	2349.5	2306.7	2258.6	2211.2	2164.6	2143.2	2133.3	2134.8	2125.6
35°	2314.3	2274.6	2233.4	2169.2	2133.3	2085.9	2069.1	2064.5	2055.3	2045.4	2034.7
37.5°	2199.7	2153.1	2091.2	2053.0	2017.1	1998.0	1989.6	1982.7	1966.7	1949.1	1936.9
40°	2088.9	2004.9	1970.5	1933.1	1922.4	1914.0	1901.8	1884.9	1862.8	1859.7	1854.4
42.5°	1940.7	1880.4	1850.6	1842.9	1829.9	1815.4	1804.7	1786.4	1777.2	1783.3	1787.9
45°	1800.1	1769.6	1759.6	1750.5	1726.0	1705.4	1698.5	1692.4	1700.0	1733.7	1653.4
47.5°	1686.3	1674.1	1661.8	1646.6	1623.6	1608.4	1615.2	1621.3	1628.2	1381.4	1260.7
50°	1587.7	1570.9	1551.8	1535.0	1521.2	1519.7	1555.6	1447.9	1212.6	1206.5	1084.2
52.5°	1480.0	1454.8	1443.3	1433.4	1439.5	1462.4	1210.3	1123.2	1077.3	936.0	873.3
55°	1363.9	1341.7	1341.7	1350.9	1318.0	1068.2	1055.2	912.3	826.0	801.5	791.6
57.5°	1247.7	1245.4	1258.4	1150.7	969.6	929.9	781.6	750.3	736.6	733.5	717.5
60°	1141.5	1162.9	973.4	895.5	778.6	702.2	680.8	677.0	662.4	657.1	642.6
62.5°	1056.7	876.4	816.0	666.3	627.3	617.4	605.9	600.6	587.6	518.8	152.0
65°	763.3	721.3	585.3	560.1	557.0	542.5	537.9	483.7	113.8	76.4	64.9
67.5°	576.1	511.2	493.6	489.0	474.5	445.4	132.2	75.6	64.9	56.5	49.7
70°	442.4	430.9	417.9	407.2	120.0	74.9	64.9	55.0	47.4	42.0	38.2
72.5°	362.2	354.5	206.3	78.7	64.2	54.2	48.1	42.0	36.7	33.6	30.6
75°	283.5	78.7	64.9	54.2	46.6	39.7	35.1	31.3	28.3	26.0	23.7
77.5°	64.2	52.0	44.3	37.4	33.6	29.8	26.7	22.9	20.6	18.3	15.3
80°	39.7	34.4	29.0	26.7	22.9	19.1	16.8	15.3	12.2	11.5	9.9
82.5°	26.0	20.6	18.3	15.3	12.2	11.5	9.9	7.6	6.9	6.1	5.3
85°	11.5	9.9	8.4	6.9	5.3	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: P1213353

CATALOG NUMBER: 2SNLED-LD5-43HL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	200°	205°	210°	215°	220°	225°	230°	235°	240°	245°	250°
0°	2545.9	2545.9	2545.9	2545.9	2545.9	2545.9	2545.9	2545.9	2545.9	2545.9	2545.9
2.5°	2573.4	2587.1	2600.1	2596.3	2582.5	2561.1	2555.0	2546.6	2552.7	2565.7	2571.1
5°	2591.7	2584.1	2611.6	2652.1	2717.8	2723.9	2769.7	2780.4	2817.1	2840.0	2839.3
7.5°	2617.7	2726.2	2771.3	2820.2	2842.3	2837.0	2843.8	2838.5	2830.1	2826.3	2821.7
10°	2749.9	2832.4	2849.2	2849.2	2814.8	2768.2	2748.3	2713.9	2645.2	2646.7	2635.3
12.5°	2827.0	2856.1	2816.3	2782.7	2644.4	2590.9	2532.9	2505.4	2489.3	2464.9	2474.0
15°	2786.5	2745.3	2721.6	2613.1	2528.3	2432.0	2433.5	2416.7	2399.2	2400.7	2389.2
17.5°	2726.9	2694.1	2526.0	2451.1	2409.9	2372.4	2365.5	2343.4	2331.9	2328.1	2327.3
20°	2645.2	2526.8	2401.4	2383.1	2333.4	2290.7	2283.8	2290.7	2325.8	2263.2	2050.7
22.5°	2549.7	2379.3	2342.6	2290.7	2257.0	2240.2	2282.3	2091.2	1802.4	1837.6	1800.1
25°	2387.7	2313.6	2250.9	2211.2	2207.4	2104.2	1753.5	1716.8	1531.2	1431.9	1320.3
27.5°	2269.3	2237.2	2171.5	2164.6	2114.9	1720.7	1538.1	1336.3	1262.2	1250.8	1226.3
30°	2197.4	2151.6	2111.9	1938.4	1687.8	1385.2	1234.0	1205.7	1192.7	1178.9	1157.6
32.5°	2111.1	2067.6	2086.7	1629.7	1345.5	1192.7	1162.1	1141.5	1117.8	1108.7	1031.5
35°	2023.2	2003.4	1630.5	1370.0	1156.8	1120.1	1097.2	1075.8	855.7	207.1	70.3
37.5°	1929.3	1924.7	1465.5	1136.9	1083.4	1049.1	984.1	203.2	48.1	32.9	24.4
40°	1855.9	1466.2	1158.3	1065.9	1022.3	968.1	136.0	33.6	21.4	13.0	8.4
42.5°	1807.0	1318.8	1036.8	1000.2	905.4	100.1	34.4	14.5	8.4	6.9	5.3
45°	1392.9	1041.4	968.8	930.6	114.6	34.4	19.9	6.9	5.3	4.6	3.1
47.5°	1285.2	945.9	903.1	203.2	38.2	18.3	13.8	4.6	3.1	3.1	3.1
50°	973.4	874.1	719.0	49.7	24.4	13.0	9.9	3.1	3.1	3.1	2.3
52.5°	853.5	806.8	77.2	32.9	19.1	9.9	6.1	2.3	2.3	2.3	2.3
55°	780.1	511.9	45.8	25.2	16.0	9.2	3.8	2.3	2.3	2.3	1.5
57.5°	713.6	68.8	33.6	21.4	14.5	8.4	2.3	2.3	2.3	2.3	1.5
60°	605.1	49.7	27.5	19.1	13.8	7.6	2.3	2.3	2.3	2.3	2.3
62.5°	78.7	39.0	23.7	16.8	9.9	6.1	1.5	2.3	2.3	2.3	2.3
65°	57.3	30.6	21.4	11.5	6.1	2.3	1.5	2.3	2.3	2.3	2.3
67.5°	44.3	25.2	16.0	9.9	5.3	1.5	1.5	2.3	2.3	2.3	2.3
70°	35.1	21.4	13.0	8.4	4.6	1.5	1.5	2.3	2.3	2.3	2.3
72.5°	27.5	15.3	9.2	4.6	3.1	1.5	1.5	2.3	2.3	2.3	2.3
75°	20.6	12.2	6.9	3.8	1.5	1.5	1.5	2.3	2.3	2.3	2.3
77.5°	13.8	7.6	5.3	3.1	3.1	3.1	3.8	3.8	2.3	2.3	2.3
80°	9.2	5.3	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: P1213353

CATALOG NUMBER: 2SNLED-LD5-43HL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	255°	260°	265°	270°	275°	280°	285°	290°	295°	300°	305°
0°	2545.9	2545.9	2545.9	2545.9	2545.9	2545.9	2545.9	2545.9	2545.9	2545.9	2545.9
2.5°	2564.2	2566.5	2560.4	2593.2	2576.4	2577.9	2584.8	2567.2	2571.1	2558.8	2550.4
5°	2842.3	2846.9	2851.5	2853.0	2856.1	2859.9	2855.3	2853.0	2848.4	2833.1	2817.1
7.5°	2798.8	2793.4	2791.1	2794.2	2799.5	2801.8	2798.0	2803.3	2823.2	2831.6	2837.0
10°	2569.5	2545.1	2561.9	2559.6	2540.5	2604.7	2587.1	2597.0	2603.9	2674.2	2717.0
12.5°	2460.3	2475.6	2446.5	2432.0	2451.1	2464.1	2477.1	2449.6	2487.8	2470.2	2526.8
15°	2368.6	2359.4	2356.4	2357.1	2353.3	2371.6	2376.2	2382.3	2387.7	2411.4	2420.5
17.5°	2327.3	2342.6	2348.7	2353.3	2345.7	2337.3	2328.9	2316.6	2320.5	2314.3	2331.9
20°	1907.9	1856.7	1853.6	1883.4	1850.6	1868.9	1913.2	2209.7	2199.7	2315.1	2276.1
22.5°	1592.3	1544.2	1502.9	1467.0	1518.2	1539.6	1622.1	1715.3	1866.6	1842.9	2007.2
25°	1300.4	1282.9	1272.2	1266.8	1270.6	1269.1	1287.4	1331.0	1399.8	1561.7	1771.1
27.5°	1216.4	1208.0	1204.2	1191.9	1201.1	1198.0	1212.6	1221.7	1242.4	1258.4	1326.4
30°	1149.9	1140.0	1133.1	1120.1	1129.3	1130.0	1134.6	1158.3	1166.7	1180.5	1201.9
32.5°	420.2	247.6	232.3	220.8	241.4	314.8	552.4	965.8	1101.8	1112.5	1136.9
35°	41.3	34.4	30.6	30.6	31.3	34.4	45.8	120.7	220.8	853.5	1068.2
37.5°	16.0	13.8	11.5	10.7	11.5	13.0	17.6	22.9	31.3	64.9	289.6
40°	6.9	6.1	5.3	5.3	5.3	5.3	6.1	7.6	11.5	21.4	33.6
42.5°	4.6	3.8	3.8	3.8	3.8	3.8	3.8	3.8	5.3	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: P1213353

CATALOG NUMBER: 2SNLED-LD5-43HL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	310°	315°	320°	325°	330°	335°	340°	341°	342°	343°	344°
0°	2545.9	2545.9	2545.9	2545.9	2545.9	2545.9	2545.9	2545.9	2545.9	2545.9	2545.9
2.5°	2535.9	2535.2	2551.2	2563.4	2558.8	2563.4	2568.8	2569.5	2571.1	2565.0	2562.7
5°	2786.5	2762.8	2717.0	2684.2	2645.9	2576.4	2542.0	2545.9	2546.6	2544.3	2547.4
7.5°	2834.7	2832.4	2816.3	2809.5	2783.5	2733.8	2654.4	2640.6	2607.0	2585.6	2568.0
10°	2713.9	2769.0	2783.5	2807.9	2823.2	2814.0	2746.8	2736.9	2715.5	2691.0	2696.4
12.5°	2583.3	2628.4	2630.7	2763.6	2793.4	2796.5	2770.5	2784.2	2787.3	2732.3	2700.2
15°	2422.8	2444.2	2489.3	2613.1	2703.3	2759.8	2776.6	2784.2	2746.8	2744.5	2731.5
17.5°	2352.5	2366.3	2386.9	2456.5	2593.2	2676.5	2747.6	2742.2	2756.7	2746.0	2713.2
20°	2263.9	2275.4	2312.1	2347.2	2414.4	2525.2	2658.2	2668.1	2687.2	2684.9	2694.1
22.5°	2262.4	2221.9	2228.0	2255.5	2325.8	2425.1	2566.5	2599.3	2611.6	2620.0	2629.9
25°	1794.8	2116.5	2175.3	2192.9	2238.7	2296.8	2463.3	2475.6	2498.5	2535.9	2563.4
27.5°	1554.9	1773.4	2008.7	2131.0	2160.0	2208.1	2307.5	2325.8	2403.7	2412.9	2455.7
30°	1227.1	1395.9	1747.4	2041.6	2089.7	2123.3	2193.6	2230.3	2263.9	2300.6	2345.7
32.5°	1154.5	1181.2	1376.1	1689.3	2063.7	2038.5	2090.5	2112.6	2149.3	2181.4	2214.3
35°	1088.0	1106.4	1147.6	1383.7	1680.9	1969.0	2004.1	2018.7	2039.3	2063.7	2087.4
37.5°	1018.5	1046.0	1074.3	1137.7	1554.9	1914.0	1913.2	1930.0	1942.2	1962.9	1982.7
40°	184.9	960.4	1006.3	1047.5	1205.7	1526.6	1827.6	1835.3	1843.7	1856.7	1877.3
42.5°	29.8	160.5	942.9	982.6	1027.7	1366.9	1788.7	1757.3	1752.0	1761.2	1779.5
45°	15.3	39.0	189.5	917.6	958.1	1090.3	1462.4	1703.1	1697.7	1680.2	1684.0
47.5°	11.5	24.4	46.6	317.1	897.0	936.0	1349.3	1334.8	1436.4	1631.3	1601.5
50°	9.9	16.8	27.5	64.9	792.3	861.9	1039.1	1214.1	1267.6	1274.5	1508.3
52.5°	9.2	11.5	19.9	42.0	166.6	796.9	845.1	906.2	996.3	1189.6	1185.1
55°	8.4	10.7	16.8	28.3	58.1	718.2	767.9	779.3	798.4	890.9	1013.1
57.5°	4.6	9.9	16.0	24.4	43.6	131.4	696.8	706.0	721.3	725.1	768.6
60°	2.3	9.2	14.5	21.4	32.1	61.1	626.5	637.2	646.4	647.9	661.7
62.5°	1.5	8.4	12.2	19.9	26.7	43.6	148.2	302.6	575.3	575.3	591.4
65°	1.5	6.1	7.6	13.0	24.4	35.9	62.7	72.6	141.4	347.6	518.8
67.5°	1.5	2.3	6.9	10.7	18.3	27.5	45.8	53.5	64.2	73.3	136.0
70°	1.5	1.5	6.1	6.9	11.5	20.6	32.9	37.4	43.6	49.7	57.3
72.5°	1.5	1.5	5.3	5.3	7.6	13.8	25.2	27.5	31.3	35.1	40.5
75°	3.8	3.1	4.6	4.6	5.3	10.7	19.1	21.4	22.9	26.0	29.8
77.5°	3.8	3.8	3.8	3.8	3.8	6.9	12.2	13.8	16.0	17.6	20.6
80°	3.1	3.1	3.1	3.8	3.8	4.6	7.6	8.4	9.2	11.5	12.2
82.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	4.6	5.3	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: P1213353

CATALOG NUMBER: 2SNLED-LD5-43HL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	345°	346°	347°	348°	349°	350°	351°	352°	353°	354°	355°
0°	2545.9	2545.9	2545.9	2545.9	2545.9	2545.9	2545.9	2545.9	2545.9	2545.9	2545.9
2.5°	2561.9	2557.3	2553.5	2555.8	2548.9	2545.9	2548.1	2548.9	2550.4	2554.3	2555.0
5°	2555.0	2553.5	2560.4	2564.2	2562.7	2564.2	2564.2	2561.1	2556.6	2559.6	2552.7
7.5°	2550.4	2540.5	2532.9	2534.4	2526.8	2535.9	2544.3	2556.6	2560.4	2560.4	2552.7
10°	2629.1	2618.4	2575.7	2546.6	2527.5	2510.7	2550.4	2509.9	2529.0	2456.5	2539.7
12.5°	2694.1	2708.6	2689.5	2610.0	2596.3	2545.9	2574.9	2525.2	2510.7	2427.4	2454.2
15°	2720.1	2692.6	2686.4	2664.3	2634.5	2620.0	2542.0	2533.6	2509.9	2519.1	2484.0
17.5°	2697.1	2710.9	2692.6	2678.0	2647.5	2613.1	2566.5	2525.2	2492.4	2419.0	2480.9
20°	2675.0	2693.3	2638.3	2647.5	2650.5	2610.8	2586.4	2552.0	2510.7	2441.9	2388.5
22.5°	2638.3	2625.3	2629.9	2616.1	2604.7	2610.0	2576.4	2552.7	2483.2	2451.9	2379.3
25°	2578.7	2574.1	2586.4	2584.8	2557.3	2548.1	2531.3	2506.1	2478.6	2428.2	2368.6
27.5°	2481.7	2505.4	2526.8	2536.7	2522.2	2497.7	2488.6	2474.0	2454.9	2403.7	2359.4
30°	2379.3	2406.0	2430.5	2451.9	2464.9	2454.2	2445.8	2437.4	2408.3	2374.7	2325.0
32.5°	2262.4	2297.5	2331.2	2357.1	2385.4	2393.8	2387.7	2380.8	2356.4	2325.8	2286.1
35°	2127.1	2175.3	2224.2	2270.8	2283.0	2302.9	2322.7	2311.3	2298.3	2267.7	2231.1
37.5°	2012.5	2046.9	2082.1	2140.9	2183.7	2208.9	2244.1	2248.6	2226.5	2212.0	2163.8
40°	1894.1	1925.4	1976.6	2011.0	2069.8	2098.9	2136.3	2153.1	2147.8	2139.4	2097.4
42.5°	1800.9	1816.2	1849.8	1880.4	1938.4	1998.0	2030.9	2049.2	2068.3	2061.4	2040.0
45°	1701.6	1715.3	1726.8	1753.5	1810.1	1862.8	1903.3	1930.8	1965.2	1981.2	1955.2
47.5°	1603.0	1606.8	1620.6	1642.7	1676.4	1716.8	1784.8	1826.1	1858.2	1889.5	1872.7
50°	1527.4	1513.6	1515.9	1529.7	1557.2	1596.9	1645.8	1703.9	1740.5	1778.7	1782.6
52.5°	1334.8	1446.4	1419.6	1427.3	1441.8	1460.9	1512.1	1569.4	1614.5	1647.3	1680.2
55°	1120.1	1142.3	1357.0	1326.4	1335.6	1352.4	1376.1	1433.4	1476.9	1522.8	1568.6
57.5°	868.7	1033.8	1042.2	1240.8	1236.3	1237.8	1257.6	1290.5	1334.1	1391.4	1430.3
60°	675.4	745.0	880.2	949.0	1123.2	1129.3	1140.7	1159.8	1197.3	1251.5	1313.4
62.5°	596.0	605.1	653.3	756.4	869.5	1006.3	1030.7	1033.8	1050.6	1104.8	1176.7
65°	523.4	529.5	544.0	554.7	649.5	781.6	899.3	918.4	929.1	961.2	1022.3
67.5°	360.6	456.1	469.1	476.8	485.9	547.1	693.0	790.0	802.3	830.5	884.0
70°	69.5	144.4	395.0	403.4	408.0	421.8	445.4	599.8	680.8	707.5	732.0
72.5°	47.4	55.8	67.2	158.9	336.2	343.8	349.2	369.0	505.8	583.7	596.7
75°	34.4	38.2	45.1	55.8	68.8	223.9	277.4	287.3	297.2	410.3	476.0
77.5°	24.4	27.5	30.6	35.9	42.0	54.2	77.9	214.7	224.6	230.0	324.7
80°	13.8	16.8	20.6	23.7	26.7	30.6	39.7	49.7	110.8	162.0	170.4
82.5°	7.6	9.2	10.7	13.0	14.5	18.3	22.2	26.7	35.1	52.0	110.0
85°	3.8	3.8	3.8	5.3	6.1	8.4	9.9	11.5	16.0	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	9.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213353

CATALOG NUMBER: 2SNLED-LD5-43HL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	356°	357°	358°	359°	360°
0°	2545.9	2545.9	2545.9	2545.9	2545.9
2.5°	2555.8	2553.5	2553.5	2562.7	2560.4
5°	2551.2	2548.9	2548.1	2558.1	2553.5
7.5°	2547.4	2539.0	2536.7	2545.9	2542.0
10°	2532.1	2526.0	2529.8	2526.8	2525.2
12.5°	2506.1	2502.3	2486.3	2487.8	2500.8
15°	2459.5	2474.8	2447.3	2471.7	2477.1
17.5°	2373.9	2408.3	2435.1	2449.6	2451.9
20°	2412.1	2423.6	2409.9	2410.6	2419.8
22.5°	2362.5	2367.8	2371.6	2367.1	2386.9
25°	2283.0	2262.4	2306.7	2315.9	2348.0
27.5°	2258.6	2241.8	2262.4	2260.9	2287.6
30°	2238.7	2184.5	2193.6	2208.1	2241.0
32.5°	2210.4	2124.9	2115.7	2147.8	2184.5
35°	2160.8	2079.8	2058.4	2079.0	2134.0
37.5°	2118.7	2017.1	1974.3	2001.8	2073.7
40°	2056.1	1968.2	1901.8	1926.2	2011.0
42.5°	1981.2	1926.2	1823.8	1840.6	1937.7
45°	1905.6	1856.7	1748.2	1756.6	1872.0
47.5°	1828.4	1783.3	1669.5	1671.0	1787.9
50°	1752.8	1693.2	1599.2	1572.4	1698.5
52.5°	1654.2	1599.2	1528.1	1484.6	1613.7
55°	1561.0	1499.1	1447.1	1379.9	1517.4
57.5°	1470.1	1401.3	1366.1	1279.8	1408.2
60°	1345.5	1312.7	1260.7	1178.2	1309.6
62.5°	1217.9	1207.2	1154.5	1068.9	1188.1
65°	1068.9	1094.1	1039.9	966.5	1062.0
67.5°	928.3	973.4	913.8	868.7	940.6
70°	778.6	830.5	796.9	780.9	811.4
72.5°	631.1	681.5	684.6	673.1	683.1
75°	487.5	543.2	573.8	556.2	558.5
77.5°	369.8	396.5	430.2	443.9	440.9
80°	228.5	275.1	302.6	330.8	320.9
82.5°	115.4	154.3	188.0	218.5	204.0
85°	48.1	61.9	86.3	113.8	109.3
87.5°	14.5	24.4	26.0	36.7	34.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)