

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P#

Luminaire Tested: **4SNLED-LD5-39SL-RM-UNV-L950-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33524)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNLED-LD5-39SL-RM-UNV-L950-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
METALIC FINISH REFLECTOR
Light Source: -
Ballast/Driver: -

Summary

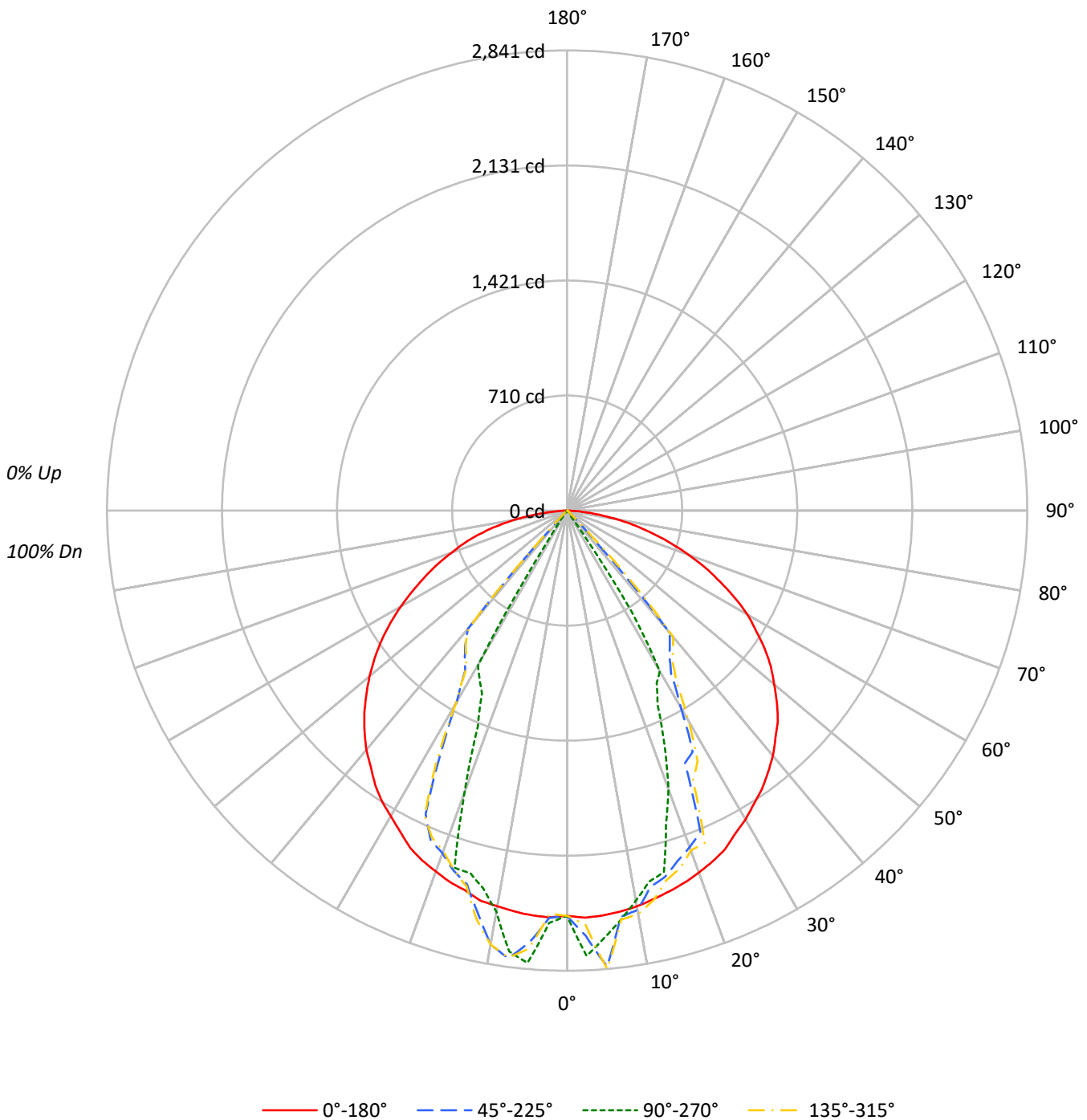
Lumens per Lamp: N/A
Luminaire Lumens: 3557.1 lumens
Efficiency: N/A
Efficacy: 127.0 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 0.81 / 0.97
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	20215	20215	20215	20215
5°	20298	20791	20292	22018
10°	20249	18814	20237	19357
15°	20194	17560	20144	17606
20°	20217	13831	20160	14002
25°	20276	10010	20176	9446
30°	20183	8780	19969	8441
35°	20243	194	19946	234
40°	20312	43	19826	43
45°	20384	25	19618	19
50°	20229	20	19301	20
55°	20109	14	18874	14
60°	19729	15	18187	15
65°	18702	24	17368	16
70°	17349	27	16515	27
75°	15345	30	15597	30
80°	12464	34	13176	34
85°	7337	40	7488	40



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	251.0	7.1
10°-20°	684.6	19.2
20°-30°	871.1	24.5
30°-40°	735.8	20.7
40°-50°	481.1	13.5
50°-60°	303.1	8.5
60°-70°	161.4	4.5
70°-80°	58.9	1.7
80°-90°	10.1	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°	1806.6	50.8
0°-40°	2542.5	71.5
0°-60°	3326.7	93.5
0°-90°	3557.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3557.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2502	2502	2502	2502	2502	
5°	2509	2647	2508	2803	2509	239
15°	2434	2310	2428	2316	2434	688
25°	2307	1319	2296	1245	2307	1061
35°	2097	25	2066	30	2097	1312
45°	1839	3	1770	2	1839	1415
55°	1491	2	1399	2	1491	1329
65°	1044	2	969	2	1044	1034
75°	549	2	558	2	549	583
85°	107	2	110	2	107	136
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°	2501.5	2501.5	2501.5	2501.5	2501.5	2501.5	2501.5	2501.5	2501.5	2501.5	2501.5
2.5°	2515.8	2517.3	2518.1	2519.6	2521.8	2522.6	2524.1	2522.6	2522.6	2522.6	2522.6
5°	2509.1	2512.1	2514.3	2517.3	2522.6	2523.3	2529.3	2530.1	2533.1	2539.1	2543.6
7.5°	2497.8	2500.8	2505.3	2512.8	2520.3	2528.6	2539.1	2550.3	2566.1	2581.1	2599.9
10°	2481.3	2485.0	2490.3	2497.0	2533.8	2539.1	2562.4	2594.6	2603.7	2651.0	2686.2
12.5°	2457.3	2470.0	2483.5	2489.5	2524.8	2580.4	2658.5	2642.7	2625.4	2780.1	2777.8
15°	2434.0	2451.2	2444.5	2493.3	2525.6	2622.4	2589.4	2660.0	2789.1	2757.6	2759.1
17.5°	2409.2	2413.0	2450.5	2491.0	2548.8	2598.4	2638.9	2735.8	2761.3	2763.6	2735.8
20°	2377.7	2395.7	2450.5	2487.3	2584.9	2608.2	2696.0	2745.5	2735.0	2709.5	2662.2
22.5°	2345.4	2400.2	2455.8	2507.6	2575.9	2638.2	2681.7	2705.0	2650.2	2549.6	2495.5
25°	2307.1	2339.4	2412.2	2488.0	2573.6	2609.7	2635.2	2597.6	2526.3	2436.2	2345.4
27.5°	2247.8	2299.6	2392.7	2478.3	2555.6	2599.1	2557.9	2467.8	2352.9	2293.6	2252.3
30°	2202.0	2269.6	2346.1	2428.7	2509.1	2534.6	2429.5	2326.6	2247.8	2188.5	2179.5
32.5°	2146.4	2242.5	2315.4	2394.2	2461.8	2428.0	2325.9	2193.0	2127.7	2105.1	2114.2
35°	2096.9	2169.7	2265.1	2342.4	2391.2	2315.4	2153.9	2071.4	2039.8	2052.6	2036.1
37.5°	2037.6	2133.7	2221.5	2288.3	2271.8	2157.7	2021.1	1968.5	1972.3	1961.7	1930.2
40°	1976.0	2067.6	2159.2	2222.3	2164.5	1990.3	1899.4	1888.2	1890.4	1856.6	1811.6
42.5°	1903.9	1987.3	2078.9	2135.9	2011.3	1875.4	1813.8	1815.3	1795.8	1748.5	1724.5
45°	1839.4	1916.0	2011.3	2016.6	1863.4	1750.0	1732.0	1712.5	1669.0	1653.2	1635.2
47.5°	1756.8	1841.6	1920.5	1891.9	1718.5	1647.9	1634.4	1591.6	1569.8	1557.8	1542.8
50°	1669.0	1754.5	1826.6	1745.5	1581.9	1565.3	1521.0	1487.3	1472.2	1459.5	1446.0
52.5°	1585.6	1656.2	1729.8	1590.1	1476.8	1461.0	1410.7	1391.2	1376.2	1361.9	1358.9
55°	1491.0	1553.3	1603.6	1442.2	1376.2	1339.4	1303.3	1289.8	1275.5	1268.8	1280.1
57.5°	1383.7	1454.2	1446.7	1296.6	1267.3	1214.0	1200.5	1191.5	1181.0	1185.5	1091.6
60°	1286.8	1340.9	1304.1	1190.0	1140.4	1104.4	1092.4	1086.4	1092.4	1000.8	879.9
62.5°	1167.4	1228.3	1153.9	1065.3	1012.8	995.5	985.0	993.3	905.4	804.8	775.5
65°	1043.6	1109.6	1000.0	931.7	898.7	883.7	882.9	813.1	726.7	687.7	687.7
67.5°	924.2	992.5	851.4	794.3	781.5	783.0	739.5	633.6	609.6	583.3	507.5
70°	797.3	857.4	703.5	668.9	661.4	656.2	550.3	521.8	493.3	423.4	417.4
72.5°	671.2	700.5	565.3	557.1	555.6	461.7	440.7	391.9	358.9	350.6	346.9
75°	548.8	539.8	446.7	454.2	382.9	349.9	316.1	287.5	283.0	280.0	69.8
77.5°	433.2	388.1	352.1	306.3	274.0	232.7	226.0	221.5	145.6	52.6	42.8
80°	315.3	251.5	234.2	199.0	169.7	162.9	166.7	51.1	40.5	33.8	29.3
82.5°	200.5	160.7	131.4	114.9	111.9	48.8	36.0	29.3	25.5	21.8	18.0
85°	107.4	71.3	66.1	55.6	33.0	22.5	18.8	14.3	12.0	9.8	9.0
87.5°	33.8	28.5	23.3	18.8	11.3	7.5	6.0	5.3	4.5	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°	2501.5	2501.5	2501.5	2501.5	2501.5	2501.5	2501.5	2501.5	2501.5	2501.5	2501.5
2.5°	2521.1	2522.6	2521.8	2524.1	2524.1	2527.1	2529.3	2531.6	2536.1	2538.3	2555.6
5°	2553.4	2557.1	2568.4	2578.9	2591.6	2595.4	2617.2	2622.4	2647.9	2651.0	2735.0
7.5°	2625.4	2639.7	2666.7	2693.7	2720.8	2738.0	2768.1	2786.8	2807.1	2825.1	2891.9
10°	2712.5	2736.5	2762.8	2789.8	2805.6	2838.6	2856.7	2859.7	2854.4	2825.1	2717.0
12.5°	2798.1	2822.1	2810.9	2816.1	2834.9	2776.3	2784.6	2742.5	2771.8	2626.9	2519.6
15°	2786.1	2784.6	2756.8	2666.7	2681.7	2569.9	2524.8	2490.3	2518.1	2503.0	2486.5
17.5°	2750.1	2681.7	2633.7	2525.6	2479.8	2448.2	2449.0	2449.7	2436.2	2450.5	2408.5
20°	2597.6	2521.1	2449.7	2411.5	2397.9	2375.4	2386.7	2375.4	2376.2	2380.7	2316.1
22.5°	2394.9	2371.7	2330.4	2342.4	2337.9	2358.2	2343.1	2319.9	2327.4	2293.6	2244.8
25°	2313.1	2286.1	2284.6	2289.1	2282.3	2273.3	2259.8	2224.5	2222.3	2211.8	2189.2
27.5°	2230.5	2232.0	2236.5	2223.0	2199.0	2181.0	2160.7	2143.4	2150.2	2138.2	2107.4
30°	2173.5	2172.7	2145.7	2133.7	2089.4	2090.1	2084.9	2074.4	2067.6	2068.4	2048.8
32.5°	2092.4	2069.1	2038.3	2023.3	2019.6	2006.0	1995.5	1997.8	2003.0	1984.3	2004.5
35°	2009.0	1961.0	1956.5	1943.7	1931.7	1922.7	1926.5	1911.4	1910.7	1908.4	1743.3
37.5°	1897.2	1873.9	1871.7	1858.1	1849.9	1847.6	1833.4	1835.6	1842.4	1854.4	1486.5
40°	1804.8	1783.8	1778.6	1777.8	1759.8	1758.3	1762.0	1776.3	1786.1	1711.0	1416.7
42.5°	1705.7	1707.2	1690.7	1680.2	1682.5	1689.2	1707.2	1657.7	1436.2	1368.6	1295.1
45°	1620.9	1613.4	1604.4	1601.4	1620.9	1607.4	1409.2	1300.3	1274.0	1271.0	1064.6
47.5°	1532.3	1530.1	1526.3	1528.6	1417.4	1263.5	1218.5	1204.2	1208.7	1205.7	914.4
50°	1443.0	1446.0	1446.0	1262.8	1159.2	1133.7	1137.4	1150.2	1070.6	999.3	852.1
52.5°	1365.6	1342.4	1150.2	1084.1	1060.8	1072.1	1045.1	945.2	873.1	831.1	788.3
55°	1222.2	1051.1	1008.3	997.8	1006.0	906.2	844.6	780.0	761.3	756.8	732.0
57.5°	961.7	927.2	930.9	888.9	793.6	737.3	712.5	703.5	695.2	689.2	60.1
60°	850.6	860.4	787.6	697.5	659.2	651.7	645.7	637.4	635.9	625.4	38.3
62.5°	778.5	684.7	621.6	599.1	590.1	587.8	576.6	572.8	486.5	66.8	28.5
65°	587.1	548.8	536.8	531.5	521.8	521.8	433.2	68.3	55.6	48.0	25.5
67.5°	479.0	476.0	470.0	463.2	315.3	66.1	57.8	50.3	43.5	38.3	22.5
70°	405.4	403.9	367.9	67.6	56.3	49.6	43.5	39.0	36.0	32.3	20.3
72.5°	332.6	67.6	57.1	49.6	42.8	39.0	35.3	31.5	28.5	26.3	16.5
75°	51.8	45.8	40.5	36.8	33.8	30.0	27.0	24.8	24.0	21.0	11.3
77.5°	37.5	32.3	29.3	26.3	23.3	21.0	18.0	15.8	14.3	12.0	8.3
80°	26.3	23.3	21.0	17.3	15.0	12.8	11.3	9.8	9.0	7.5	3.8
82.5°	15.0	12.8	11.3	9.0	8.3	6.8	6.0	5.3	5.3	3.8	3.8
85°	6.8	6.8	5.3	4.5	3.8	3.8	3.8	3.0	3.0	2.3	2.3
87.5°	3.0	3.0	3.0	3.0	3.0	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°	2501.5	2501.5	2501.5	2501.5	2501.5	2501.5	2501.5	2501.5	2501.5	2501.5	2501.5
2.5°	2579.6	2589.4	2608.2	2627.7	2605.9	2684.0	2678.0	2704.3	2718.5	2725.3	2741.0
5°	2809.4	2852.9	2867.2	2824.4	2799.6	2774.1	2716.3	2672.7	2678.0	2663.7	2611.9
7.5°	2804.9	2711.8	2586.4	2529.3	2524.8	2518.1	2536.1	2546.6	2548.1	2547.3	2545.8
10°	2567.6	2519.6	2511.3	2503.8	2506.8	2479.0	2466.3	2430.2	2449.7	2439.2	2443.0
12.5°	2495.5	2484.3	2440.0	2378.4	2415.2	2387.4	2371.7	2382.2	2370.2	2358.9	2355.1
15°	2452.7	2379.9	2355.1	2340.1	2329.6	2323.6	2328.9	2316.9	2313.1	2310.9	2316.1
17.5°	2364.2	2334.9	2307.9	2268.1	2268.8	2266.6	2281.6	2304.1	2305.6	2190.0	2085.6
20°	2294.3	2270.3	2235.8	2211.0	2244.8	2184.7	1952.7	1842.4	1825.1	1825.1	1828.1
22.5°	2238.8	2185.5	2187.7	2148.7	1832.6	1768.1	1769.6	1776.3	1745.5	1640.4	1629.2
25°	2163.0	2154.7	1990.3	1720.0	1722.3	1672.0	1594.6	1485.8	1367.9	1367.9	1348.4
27.5°	2105.9	1931.0	1690.7	1679.5	1510.5	1403.9	1337.9	1238.0	1224.5	1211.7	1213.2
30°	2057.1	1633.7	1639.7	1403.9	1279.3	1190.7	1185.5	1168.9	1160.7	1158.4	1150.2
32.5°	1626.2	1590.9	1372.4	1195.2	1146.4	1132.2	1125.4	1106.6	1105.9	1091.6	992.5
35°	1524.8	1396.4	1148.7	1100.6	1086.4	1072.8	1061.6	712.5	84.1	33.8	29.3
37.5°	1409.2	1166.7	1062.3	1040.6	1027.0	759.0	75.8	26.3	18.8	13.5	12.0
40°	1194.5	1042.1	1009.0	985.0	406.2	26.3	16.5	12.8	7.5	6.8	6.0
42.5°	1007.5	982.0	946.7	288.3	30.0	12.8	8.3	6.0	5.3	5.3	4.5
45°	943.0	920.4	381.4	28.5	18.8	6.0	5.3	5.3	4.5	3.0	3.0
47.5°	882.9	777.0	34.5	18.0	12.0	5.3	4.5	3.0	3.0	3.0	2.3
50°	819.1	42.8	24.0	13.5	7.5	3.0	3.0	3.0	3.0	2.3	2.3
52.5°	153.2	30.0	19.5	12.0	3.8	3.0	3.0	3.0	2.3	2.3	2.3
55°	36.0	24.0	18.0	10.5	3.0	3.0	3.0	2.3	2.3	2.3	1.5
57.5°	27.0	18.0	14.3	9.8	3.0	2.3	2.3	2.3	2.3	2.3	1.5
60°	22.5	12.8	11.3	9.0	2.3	2.3	2.3	2.3	2.3	2.3	1.5
62.5°	15.8	10.5	8.3	6.8	2.3	2.3	2.3	2.3	2.3	2.3	2.3
65°	12.8	8.3	6.8	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
67.5°	11.3	6.8	4.5	1.5	2.3	2.3	2.3	2.3	2.3	2.3	2.3
70°	9.0	2.3	2.3	1.5	2.3	2.3	2.3	2.3	2.3	2.3	2.3
72.5°	7.5	2.3	1.5	1.5	2.3	2.3	2.3	2.3	2.3	2.3	2.3
75°	7.5	3.8	1.5	1.5	2.3	2.3	3.0	3.0	2.3	2.3	2.3
77.5°	5.3	3.8	1.5	1.5	2.3	2.3	3.0	3.0	2.3	2.3	2.3
80°	3.0	3.8	1.5	2.3	2.3	4.5	5.3	3.0	2.3	2.3	2.3
82.5°	3.0	3.8	4.5	4.5	2.3	3.8	4.5	3.8	3.0	2.3	2.3
85°	3.0	2.3	3.0	3.8	2.3	3.8	3.8	3.0	3.0	2.3	2.3
87.5°	1.5	2.3	2.3	3.0	3.0	3.0	3.8	3.0	3.0	3.0	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: P#

CATALOG NUMBER: 4SNLED-LD5-39SL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	85°	90°	95°	100°	105°	110°	115°	120°	125°	130°	135°
0°	2501.5	2501.5	2501.5	2501.5	2501.5	2501.5	2501.5	2501.5	2501.5	2501.5	2501.5
2.5°	2748.6	2751.6	2704.3	2687.7	2702.0	2699.0	2686.2	2638.9	2633.7	2602.2	2556.4
5°	2626.9	2647.2	2622.4	2665.2	2644.9	2665.2	2726.8	2755.3	2801.9	2830.4	2840.9
7.5°	2542.1	2546.6	2546.6	2550.3	2554.1	2554.9	2550.3	2547.3	2534.6	2518.8	2547.3
10°	2439.2	2444.5	2453.5	2452.0	2451.2	2467.0	2470.8	2503.0	2501.5	2507.6	2529.3
12.5°	2385.9	2345.4	2382.2	2372.4	2385.9	2364.9	2403.9	2397.2	2399.4	2417.5	2464.0
15°	2297.3	2310.1	2319.1	2319.1	2324.4	2319.9	2315.4	2346.1	2364.9	2365.7	2362.7
17.5°	2126.9	2030.1	2129.2	2103.6	2307.1	2312.4	2295.1	2280.8	2280.8	2292.1	2316.1
20°	1825.9	1828.1	1828.9	1838.6	1850.6	1849.9	1850.6	2146.4	2286.8	2254.5	2232.8
22.5°	1600.6	1572.9	1624.7	1620.9	1685.5	1756.8	1825.1	1818.4	1822.9	2031.6	2219.3
25°	1283.1	1319.1	1289.8	1302.6	1375.4	1460.2	1512.8	1650.2	1799.6	1789.1	1837.9
27.5°	1208.0	1198.2	1211.7	1211.7	1221.5	1232.8	1262.0	1339.4	1472.2	1611.9	1744.0
30°	1136.7	1144.9	1146.4	1159.9	1167.4	1174.9	1179.5	1208.7	1238.8	1335.6	1498.5
32.5°	853.6	748.5	985.0	1048.8	1102.9	1115.6	1124.6	1136.7	1158.4	1172.7	1254.5
35°	24.8	24.8	26.3	30.0	38.3	258.3	983.5	1084.1	1098.4	1116.4	1131.4
37.5°	12.0	9.0	10.5	11.3	13.5	18.8	27.0	84.1	936.2	1058.6	1075.1
40°	5.3	5.3	5.3	5.3	6.0	7.5	11.3	18.8	28.5	753.0	1015.8
42.5°	4.5	4.5	4.5	4.5	4.5	4.5	5.3	6.8	13.5	32.3	533.0
45°	3.0	3.0	2.3	3.0	3.0	3.8	4.5	4.5	6.0	20.3	36.8
47.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	3.8	4.5	13.5	19.5
50°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	10.5	13.5
52.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	4.5	12.0
55°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.3	2.3	3.0	10.5
57.5°	1.5	1.5	1.5	1.5	1.5	2.3	1.5	1.5	2.3	2.3	9.8
60°	1.5	1.5	1.5	1.5	1.5	2.3	2.3	2.3	2.3	2.3	9.0
62.5°	2.3	2.3	1.5	2.3	1.5	1.5	2.3	2.3	2.3	2.3	6.0
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	3.0	3.0	1.5	1.5	1.5
77.5°	2.3	2.3	2.3	2.3	2.3	2.3	3.8	4.5	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	3.0	3.0	3.0	3.0	3.8
85°	2.3	2.3	2.3	2.3	2.3	2.3	3.0	3.0	3.0	2.3	3.0
87.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	3.0	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: P#

CATALOG NUMBER: 4SNLED-LD5-39SL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	140°	145°	150°	155°	160°	161°	162°	163°	164°	165°	166°
0°	2501.5	2501.5	2501.5	2501.5	2501.5	2501.5	2501.5	2501.5	2501.5	2501.5	2501.5
2.5°	2560.1	2534.6	2526.3	2509.1	2507.6	2509.1	2505.3	2500.0	2503.0	2497.8	2493.3
5°	2846.9	2778.6	2734.3	2675.0	2593.1	2575.1	2570.6	2545.1	2536.1	2533.1	2521.1
7.5°	2614.9	2739.5	2814.6	2840.1	2744.0	2721.5	2695.2	2674.2	2654.0	2615.7	2592.4
10°	2512.1	2518.1	2590.1	2674.2	2810.9	2829.6	2843.9	2798.1	2785.3	2687.7	2666.7
12.5°	2488.0	2488.8	2497.0	2548.1	2655.5	2667.5	2717.8	2744.8	2777.8	2796.6	2781.6
15°	2378.4	2439.2	2484.3	2488.8	2498.5	2519.6	2534.6	2628.4	2668.2	2774.8	2768.8
17.5°	2327.4	2346.9	2412.2	2465.5	2456.5	2449.0	2461.0	2473.8	2512.1	2618.7	2617.2
20°	2242.5	2304.8	2340.1	2395.7	2446.0	2448.2	2434.7	2427.2	2412.2	2429.5	2445.2
22.5°	2206.5	2216.3	2282.3	2321.4	2378.4	2398.7	2401.7	2402.4	2394.2	2385.2	2380.7
25°	2202.7	2172.0	2205.7	2254.5	2296.6	2318.4	2343.1	2351.4	2348.4	2348.4	2343.9
27.5°	1802.6	2162.2	2144.2	2176.5	2227.5	2242.5	2255.3	2280.8	2296.6	2307.9	2313.1
30°	1717.0	1781.6	2096.1	2100.6	2152.4	2150.9	2165.2	2186.2	2206.5	2232.8	2239.5
32.5°	1518.8	1677.2	1919.0	2024.8	2078.9	2084.1	2091.6	2097.6	2116.4	2145.7	2171.2
35°	1217.0	1527.8	1644.2	1988.8	1998.5	2009.0	2013.6	2027.8	2033.8	2045.8	2068.4
37.5°	1101.4	1262.8	1577.4	1720.0	1906.2	1915.2	1939.2	1945.2	1955.0	1964.8	1982.0
40°	1034.6	1078.8	1313.1	1536.1	1831.9	1837.9	1846.1	1861.1	1861.9	1873.2	1888.9
42.5°	981.2	1009.8	1078.1	1467.0	1779.3	1778.6	1759.0	1768.8	1773.3	1785.3	1807.1
45°	783.8	947.5	991.0	1198.2	1416.7	1518.8	1714.7	1682.5	1681.7	1686.2	1709.5
47.5°	39.8	891.2	921.9	988.8	1337.9	1341.6	1367.1	1581.9	1614.9	1604.4	1606.6
50°	27.0	61.6	858.9	889.7	1153.2	1246.3	1265.0	1274.8	1398.7	1536.8	1514.3
52.5°	21.0	35.3	526.3	825.8	937.0	1005.3	1126.1	1195.2	1202.7	1258.3	1446.7
55°	18.8	27.0	57.1	762.0	796.6	811.6	882.1	1003.0	1100.6	1129.9	1132.2
57.5°	16.5	24.8	39.0	344.6	724.5	727.5	739.5	781.5	869.4	949.7	1040.6
60°	15.0	21.8	30.8	59.3	658.4	665.9	668.2	679.4	690.0	744.8	849.1
62.5°	9.0	17.3	27.0	42.8	521.0	598.4	597.6	605.1	614.9	620.9	641.9
65°	7.5	13.5	23.3	36.0	63.8	79.6	483.5	537.5	543.6	551.8	555.6
67.5°	6.8	12.0	17.3	28.5	48.0	54.8	63.1	78.1	426.4	480.5	488.0
70°	6.0	8.3	14.3	24.0	39.0	42.0	47.3	54.1	63.8	78.8	385.9
72.5°	3.8	6.0	9.8	17.3	30.0	33.8	36.8	41.3	45.8	54.8	63.1
75°	1.5	4.5	8.3	12.8	23.3	25.5	27.8	30.8	34.5	40.5	45.0
77.5°	1.5	3.8	6.8	9.0	15.0	17.3	20.3	22.5	25.5	28.5	33.0
80°	5.3	3.0	4.5	6.8	10.5	11.3	12.8	14.3	16.5	18.8	21.8
82.5°	3.8	4.5	5.3	4.5	5.3	6.8	7.5	9.0	9.8	11.3	12.0
85°	3.0	3.0	3.8	3.8	3.8	3.8	3.8	3.8	4.5	5.3	6.8
87.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	3.0	3.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-39SL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	167°	168°	169°	170°	171°	172°	173°	174°	175°	176°	177°
0°	2501.5	2501.5	2501.5	2501.5	2501.5	2501.5	2501.5	2501.5	2501.5	2501.5	2501.5
2.5°	2493.3	2491.8	2487.3	2487.3	2486.5	2489.5	2491.8	2494.0	2493.3	2497.8	2493.3
5°	2512.1	2508.3	2501.5	2495.5	2493.3	2494.8	2492.5	2494.8	2491.8	2495.5	2488.8
7.5°	2563.9	2551.1	2524.8	2514.3	2500.8	2500.0	2493.3	2491.8	2487.3	2487.3	2479.0
10°	2655.5	2593.9	2586.4	2554.9	2543.6	2488.8	2500.8	2480.5	2478.3	2468.5	2464.8
12.5°	2730.5	2682.5	2668.2	2640.4	2608.9	2497.8	2522.6	2479.0	2476.8	2457.3	2437.0
15°	2732.0	2759.8	2720.8	2644.2	2637.4	2560.9	2510.6	2495.5	2476.0	2417.5	2427.2
17.5°	2644.2	2708.0	2726.8	2710.3	2662.2	2610.4	2539.8	2509.8	2451.2	2425.0	2407.0
20°	2501.5	2566.1	2646.4	2651.7	2681.7	2644.9	2552.6	2503.8	2433.2	2387.4	2372.4
22.5°	2388.2	2435.5	2527.8	2570.6	2607.4	2620.2	2561.6	2489.5	2401.7	2357.4	2348.4
25°	2328.1	2338.6	2366.4	2416.7	2497.8	2556.4	2564.6	2488.0	2442.2	2345.4	2294.3
27.5°	2306.3	2297.3	2286.1	2311.6	2372.4	2443.7	2491.0	2503.8	2389.7	2297.3	2246.3
30°	2250.8	2256.0	2238.8	2229.8	2269.6	2343.1	2427.2	2448.2	2360.4	2265.1	2206.5
32.5°	2182.5	2191.5	2194.5	2178.7	2170.5	2221.5	2312.4	2362.7	2358.2	2219.3	2153.9
35°	2096.9	2122.4	2129.2	2129.9	2116.4	2108.1	2160.7	2265.1	2304.8	2198.2	2103.6
37.5°	2006.8	2014.3	2051.1	2060.8	2060.8	2036.1	2075.1	2158.4	2214.0	2150.9	2042.1
40°	1894.2	1918.2	1952.7	1970.0	1987.3	1989.5	1967.8	2026.3	2117.9	2102.1	1984.3
42.5°	1812.3	1828.1	1849.1	1872.4	1907.7	1916.7	1894.2	1904.7	2000.0	2041.3	1909.2
45°	1717.0	1738.0	1744.0	1769.6	1806.3	1832.6	1831.9	1810.1	1886.7	1937.7	1854.4
47.5°	1619.4	1639.7	1650.2	1662.9	1690.0	1723.8	1742.5	1732.8	1747.8	1847.6	1781.6
50°	1518.8	1530.1	1551.1	1565.3	1583.4	1602.9	1647.9	1656.9	1635.9	1715.5	1701.2
52.5°	1423.5	1427.2	1441.5	1455.7	1479.8	1494.0	1530.1	1557.1	1555.6	1578.9	1611.9
55°	1349.1	1332.6	1335.6	1346.9	1362.6	1384.4	1404.7	1446.7	1461.0	1465.5	1518.0
57.5°	1054.1	1223.7	1238.8	1238.0	1256.8	1266.5	1285.3	1313.1	1364.1	1352.9	1411.4
60°	958.0	976.7	1118.6	1135.2	1141.9	1150.9	1173.4	1199.0	1236.5	1260.5	1286.1
62.5°	730.5	844.6	887.4	1012.8	1032.3	1037.6	1052.6	1064.6	1103.6	1158.4	1147.9
65°	565.3	614.1	744.8	795.8	902.4	915.9	937.0	949.7	961.0	1024.0	1027.0
67.5°	488.7	496.3	531.5	629.9	697.5	801.8	814.6	825.8	843.1	888.2	915.9
70°	417.4	426.4	436.2	444.5	532.3	601.4	698.2	702.0	713.2	743.3	806.3
72.5°	78.8	356.6	362.6	367.9	377.6	423.4	515.8	590.9	595.4	609.6	667.4
75°	53.3	62.3	85.6	294.3	304.1	307.1	322.8	416.7	485.7	488.7	514.3
77.5°	38.3	42.8	51.8	61.6	156.9	235.7	239.5	256.8	328.1	379.9	384.4
80°	26.3	29.3	34.5	39.0	48.0	63.1	174.2	179.4	188.4	259.8	273.3
82.5°	15.0	17.3	20.3	24.8	28.5	36.0	46.5	60.1	122.4	130.6	173.4
85°	7.5	8.3	9.8	12.0	14.3	17.3	23.3	28.5	39.0	70.6	72.8
87.5°	3.8	3.8	3.8	3.8	6.0	6.8	8.3	10.5	13.5	20.3	26.3
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: P#

CATALOG NUMBER: 4SNLED-LD5-39SL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	178°	179°	180°	181°	182°	183°	184°	185°	186°	187°	188°
0°	2501.5	2501.5	2501.5	2501.5	2501.5	2501.5	2501.5	2501.5	2501.5	2501.5	2501.5
2.5°	2494.0	2504.6	2513.6	2515.8	2515.8	2517.3	2519.6	2521.1	2522.6	2524.1	2522.6
5°	2489.5	2500.8	2508.3	2510.6	2510.6	2515.1	2518.8	2523.3	2525.6	2525.6	2524.1
7.5°	2478.3	2486.5	2496.3	2502.3	2503.0	2510.6	2517.3	2516.6	2519.6	2521.1	2524.8
10°	2463.3	2463.3	2479.8	2484.3	2488.0	2496.3	2498.5	2503.0	2513.6	2515.1	2524.8
12.5°	2455.8	2448.2	2467.8	2470.0	2482.8	2472.3	2485.8	2490.3	2479.8	2494.0	2475.3
15°	2422.0	2431.0	2428.0	2434.7	2457.3	2445.2	2482.0	2470.0	2497.0	2464.8	2521.8
17.5°	2394.2	2392.7	2404.7	2410.7	2415.2	2440.7	2450.5	2464.0	2474.5	2465.5	2488.0
20°	2373.9	2361.9	2370.9	2377.7	2393.4	2413.0	2419.0	2398.7	2434.0	2494.0	2508.3
22.5°	2335.6	2327.4	2337.9	2337.9	2361.9	2358.9	2381.4	2368.7	2401.7	2471.5	2544.3
25°	2283.8	2284.6	2295.8	2309.4	2313.9	2347.6	2359.7	2376.2	2417.5	2500.8	2545.1
27.5°	2231.3	2226.8	2233.5	2261.3	2284.6	2309.4	2313.1	2369.4	2425.7	2482.8	2521.8
30°	2178.7	2174.2	2178.7	2199.0	2226.8	2243.3	2284.6	2359.7	2412.2	2451.2	2488.0
32.5°	2122.4	2117.9	2128.4	2143.4	2192.2	2194.5	2276.3	2346.9	2388.2	2416.7	2410.0
35°	2062.4	2056.3	2066.1	2089.4	2134.4	2150.9	2236.5	2289.1	2335.6	2349.1	2317.6
37.5°	1990.3	1979.8	1991.8	2024.1	2071.4	2119.4	2190.7	2251.5	2276.3	2240.3	2202.7
40°	1915.2	1907.7	1928.7	1945.2	2000.8	2067.6	2149.4	2192.2	2176.5	2135.2	2093.9
42.5°	1848.4	1832.6	1851.4	1882.9	1946.0	2021.8	2087.9	2111.9	2074.4	2013.6	1965.5
45°	1766.5	1747.8	1770.3	1812.3	1879.9	1966.3	2018.1	2009.8	1946.0	1893.4	1827.4
47.5°	1681.0	1658.4	1681.0	1731.3	1807.1	1898.7	1936.2	1898.7	1818.4	1752.3	1699.0
50°	1596.9	1570.6	1592.4	1668.2	1742.5	1813.1	1812.3	1739.5	1691.5	1619.4	1572.9
52.5°	1513.5	1476.0	1497.8	1580.4	1654.7	1735.0	1675.7	1608.1	1550.3	1487.3	1472.2
55°	1410.7	1370.1	1399.4	1519.5	1576.6	1623.9	1529.3	1470.0	1412.9	1381.4	1362.6
57.5°	1313.1	1268.8	1294.3	1436.2	1478.3	1490.3	1403.2	1319.1	1285.3	1274.8	1247.8
60°	1212.5	1162.2	1186.2	1349.9	1379.2	1330.4	1244.8	1179.5	1172.7	1151.7	1130.7
62.5°	1116.4	1060.8	1075.8	1242.5	1256.0	1167.4	1088.6	1071.3	1054.8	1033.8	1022.5
65°	1006.0	948.2	969.2	1128.4	1115.6	1001.5	957.2	953.5	931.7	914.4	930.9
67.5°	904.7	836.4	865.6	1003.8	946.0	852.9	834.9	825.8	808.6	818.3	644.9
70°	793.6	719.2	759.0	869.4	783.8	722.2	715.5	702.0	702.7	558.6	470.7
72.5°	669.7	605.1	662.9	722.2	620.1	602.1	592.4	590.9	476.7	387.4	365.6
75°	560.8	495.5	557.8	580.3	494.0	482.0	481.2	397.9	313.1	298.8	292.0
77.5°	437.7	387.4	446.7	412.9	379.1	365.6	328.1	246.3	235.7	226.0	84.8
80°	295.1	298.8	333.3	284.5	270.3	230.5	181.7	174.2	150.2	60.1	47.3
82.5°	179.4	225.2	212.5	177.9	174.2	125.4	114.9	58.6	43.5	34.5	30.0
85°	93.1	114.1	109.6	96.8	72.1	64.6	36.0	27.8	22.5	17.3	14.3
87.5°	31.5	42.0	40.5	32.3	24.8	19.5	12.8	10.5	7.5	6.0	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: P#

CATALOG NUMBER: 4SNLED-LD5-39SL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	189°	190°	191°	192°	193°	194°	195°	196°	197°	198°	199°
0°	2501.5	2501.5	2501.5	2501.5	2501.5	2501.5	2501.5	2501.5	2501.5	2501.5	2501.5
2.5°	2521.1	2521.1	2519.6	2521.1	2521.8	2520.3	2520.3	2521.8	2522.6	2523.3	2527.1
5°	2524.8	2526.3	2528.6	2533.1	2533.8	2542.8	2546.6	2548.8	2551.1	2551.8	2546.6
7.5°	2533.1	2538.3	2542.8	2542.1	2536.8	2522.6	2518.1	2514.3	2521.1	2538.3	2558.6
10°	2540.6	2516.6	2471.5	2533.1	2514.3	2531.6	2582.6	2593.9	2628.4	2677.2	2691.5
12.5°	2488.8	2554.9	2569.1	2500.0	2627.7	2580.4	2636.7	2686.2	2700.5	2750.1	2720.0
15°	2544.3	2576.6	2598.4	2667.5	2660.0	2700.5	2716.3	2706.5	2708.8	2721.5	2755.3
17.5°	2543.6	2608.2	2622.4	2669.0	2700.5	2701.3	2696.7	2692.2	2704.3	2714.0	2693.7
20°	2587.1	2608.2	2635.9	2654.7	2660.7	2668.2	2682.5	2671.2	2648.7	2626.9	2617.9
22.5°	2565.4	2612.7	2636.7	2639.7	2635.9	2612.7	2591.6	2560.1	2549.6	2538.3	2542.1
25°	2569.9	2591.6	2588.6	2576.6	2560.9	2517.3	2506.8	2493.3	2473.0	2424.2	2379.9
27.5°	2537.6	2526.3	2512.8	2483.5	2455.0	2431.7	2405.5	2361.9	2325.9	2273.3	2253.8
30°	2483.5	2438.5	2405.5	2388.2	2360.4	2321.4	2281.6	2228.3	2182.5	2172.0	2162.2
32.5°	2379.9	2335.6	2308.6	2266.6	2219.3	2172.7	2126.9	2105.9	2096.1	2097.6	2088.6
35°	2274.1	2235.0	2194.5	2131.4	2096.1	2049.6	2033.1	2028.6	2019.6	2009.8	1999.3
37.5°	2161.5	2115.7	2054.8	2017.3	1982.0	1963.3	1955.0	1948.2	1932.5	1915.2	1903.2
40°	2052.6	1970.0	1936.2	1899.4	1888.9	1880.7	1868.7	1852.1	1830.4	1827.4	1822.1
42.5°	1906.9	1847.6	1818.4	1810.8	1798.1	1783.8	1773.3	1755.3	1746.3	1752.3	1756.8
45°	1768.8	1738.8	1729.0	1720.0	1696.0	1675.7	1669.0	1662.9	1670.5	1703.5	1624.7
47.5°	1656.9	1644.9	1632.9	1617.9	1595.4	1580.4	1587.1	1593.1	1599.9	1357.4	1238.8
50°	1560.1	1543.6	1524.8	1508.3	1494.8	1493.3	1528.6	1422.7	1191.5	1185.5	1065.3
52.5°	1454.2	1429.5	1418.2	1408.4	1414.4	1437.0	1189.2	1103.6	1058.6	919.7	858.1
55°	1340.1	1318.3	1318.3	1327.4	1295.1	1049.6	1036.8	896.4	811.6	787.6	777.8
57.5°	1226.0	1223.7	1236.5	1130.7	952.7	913.7	768.0	737.3	723.7	720.7	705.0
60°	1121.6	1142.7	956.5	879.9	765.0	690.0	668.9	665.2	650.9	645.7	631.4
62.5°	1038.3	861.1	801.8	654.7	616.4	606.6	595.4	590.1	577.3	509.8	149.4
65°	750.0	708.7	575.1	550.3	547.3	533.0	528.5	475.2	111.9	75.1	63.8
67.5°	566.1	502.3	485.0	480.5	466.2	437.7	129.9	74.3	63.8	55.6	48.8
70°	434.7	423.4	410.7	400.2	117.9	73.6	63.8	54.1	46.5	41.3	37.5
72.5°	355.9	348.4	202.7	77.3	63.1	53.3	47.3	41.3	36.0	33.0	30.0
75°	278.5	77.3	63.8	53.3	45.8	39.0	34.5	30.8	27.8	25.5	23.3
77.5°	63.1	51.1	43.5	36.8	33.0	29.3	26.3	22.5	20.3	18.0	15.0
80°	39.0	33.8	28.5	26.3	22.5	18.8	16.5	15.0	12.0	11.3	9.8
82.5°	25.5	20.3	18.0	15.0	12.0	11.3	9.8	7.5	6.8	6.0	5.3
85°	11.3	9.8	8.3	6.8	5.3	4.5	3.8	3.0	3.0	3.0	3.0
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: P#

CATALOG NUMBER: 4SNLED-LD5-39SL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	200°	205°	210°	215°	220°	225°	230°	235°	240°	245°	250°
0°	2501.5	2501.5	2501.5	2501.5	2501.5	2501.5	2501.5	2501.5	2501.5	2501.5	2501.5
2.5°	2528.6	2542.1	2554.9	2551.1	2537.6	2516.6	2510.6	2502.3	2508.3	2521.1	2526.3
5°	2546.6	2539.1	2566.1	2605.9	2670.5	2676.5	2721.5	2732.0	2768.1	2790.6	2789.8
7.5°	2572.1	2678.7	2723.0	2771.1	2792.8	2787.6	2794.3	2789.1	2780.8	2777.1	2772.6
10°	2702.0	2783.1	2799.6	2799.6	2765.8	2720.0	2700.5	2666.7	2599.1	2600.6	2589.4
12.5°	2777.8	2806.4	2767.3	2734.3	2598.4	2545.8	2488.8	2461.8	2446.0	2422.0	2431.0
15°	2738.0	2697.5	2674.2	2567.6	2484.3	2389.7	2391.2	2374.7	2357.4	2358.9	2347.6
17.5°	2679.5	2647.2	2482.0	2408.5	2367.9	2331.1	2324.4	2302.6	2291.3	2287.6	2286.8
20°	2599.1	2482.8	2359.7	2341.6	2292.8	2250.8	2244.0	2250.8	2285.3	2223.8	2015.1
22.5°	2505.3	2337.9	2301.8	2250.8	2217.8	2201.2	2242.5	2054.8	1771.1	1805.6	1768.8
25°	2346.1	2273.3	2211.8	2172.7	2169.0	2067.6	1723.0	1687.0	1504.5	1406.9	1297.3
27.5°	2229.8	2198.2	2133.7	2126.9	2078.1	1690.7	1511.3	1313.1	1240.3	1229.0	1205.0
30°	2159.2	2114.2	2075.1	1904.7	1658.4	1361.1	1212.5	1184.7	1171.9	1158.4	1137.4
32.5°	2074.4	2031.6	2050.3	1601.4	1322.1	1171.9	1141.9	1121.6	1098.4	1089.4	1013.5
35°	1988.0	1968.5	1602.1	1346.1	1136.7	1100.6	1078.1	1057.1	840.9	203.5	69.1
37.5°	1895.7	1891.2	1440.0	1117.1	1064.6	1030.8	967.0	199.7	47.3	32.3	24.0
40°	1823.6	1440.7	1138.2	1047.3	1004.5	951.2	133.6	33.0	21.0	12.8	8.3
42.5°	1775.6	1295.8	1018.8	982.8	889.7	98.4	33.8	14.3	8.3	6.8	5.3
45°	1368.6	1023.3	952.0	914.4	112.6	33.8	19.5	6.8	5.3	4.5	3.0
47.5°	1262.8	929.4	887.4	199.7	37.5	18.0	13.5	4.5	3.0	3.0	3.0
50°	956.5	858.9	706.5	48.8	24.0	12.8	9.8	3.0	3.0	3.0	2.3
52.5°	838.6	792.8	75.8	32.3	18.8	9.8	6.0	2.3	2.3	2.3	2.3
55°	766.5	503.0	45.0	24.8	15.8	9.0	3.8	2.3	2.3	2.3	1.5
57.5°	701.2	67.6	33.0	21.0	14.3	8.3	2.3	2.3	2.3	2.3	1.5
60°	594.6	48.8	27.0	18.8	13.5	7.5	2.3	2.3	2.3	2.3	2.3
62.5°	77.3	38.3	23.3	16.5	9.8	6.0	1.5	2.3	2.3	2.3	2.3
65°	56.3	30.0	21.0	11.3	6.0	2.3	1.5	2.3	2.3	2.3	2.3
67.5°	43.5	24.8	15.8	9.8	5.3	1.5	1.5	2.3	2.3	2.3	2.3
70°	34.5	21.0	12.8	8.3	4.5	1.5	1.5	2.3	2.3	2.3	2.3
72.5°	27.0	15.0	9.0	4.5	3.0	1.5	1.5	2.3	2.3	2.3	2.3
75°	20.3	12.0	6.8	3.8	1.5	1.5	1.5	2.3	2.3	2.3	2.3
77.5°	13.5	7.5	5.3	3.0	3.0	3.0	3.8	3.8	2.3	2.3	2.3
80°	9.0	5.3	3.8	3.8	3.8	3.0	3.8	3.8	2.3	3.8	2.3
82.5°	4.5	3.8	3.8	3.0	3.0	2.3	3.0	3.0	3.0	3.0	2.3
85°	3.0	2.3	2.3	2.3	2.3	2.3	2.3	2.3	3.0	3.0	2.3
87.5°	1.5	1.5	1.5	1.5	2.3	2.3	2.3	2.3	3.0	3.0	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: P#

CATALOG NUMBER: 4SNLED-LD5-39SL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	255°	260°	265°	270°	275°	280°	285°	290°	295°	300°	305°
0°	2501.5	2501.5	2501.5	2501.5	2501.5	2501.5	2501.5	2501.5	2501.5	2501.5	2501.5
2.5°	2519.6	2521.8	2515.8	2548.1	2531.6	2533.1	2539.8	2522.6	2526.3	2514.3	2506.1
5°	2792.8	2797.3	2801.9	2803.4	2806.4	2810.1	2805.6	2803.4	2798.9	2783.8	2768.1
7.5°	2750.1	2744.8	2742.5	2745.5	2750.8	2753.1	2749.3	2754.6	2774.1	2782.3	2787.6
10°	2524.8	2500.8	2517.3	2515.1	2496.3	2559.4	2542.1	2551.8	2558.6	2627.7	2669.7
12.5°	2417.5	2432.5	2403.9	2389.7	2408.5	2421.2	2434.0	2407.0	2444.5	2427.2	2482.8
15°	2327.4	2318.4	2315.4	2316.1	2312.4	2330.4	2334.9	2340.9	2346.1	2369.4	2378.4
17.5°	2286.8	2301.8	2307.9	2312.4	2304.8	2296.6	2288.3	2276.3	2280.1	2274.1	2291.3
20°	1874.7	1824.4	1821.4	1850.6	1818.4	1836.4	1879.9	2171.2	2161.5	2274.8	2236.5
22.5°	1564.6	1517.3	1476.8	1441.5	1491.8	1512.8	1593.9	1685.5	1834.1	1810.8	1972.3
25°	1277.8	1260.5	1250.0	1244.8	1248.5	1247.0	1265.0	1307.8	1375.4	1534.6	1740.3
27.5°	1195.2	1187.0	1183.2	1171.2	1180.2	1177.2	1191.5	1200.5	1220.7	1236.5	1303.3
30°	1129.9	1120.1	1113.4	1100.6	1109.6	1110.4	1114.9	1138.2	1146.4	1159.9	1181.0
32.5°	412.9	243.2	228.2	217.0	237.2	309.3	542.8	949.0	1082.6	1093.1	1117.1
35°	40.5	33.8	30.0	30.0	30.8	33.8	45.0	118.6	217.0	838.6	1049.6
37.5°	15.8	13.5	11.3	10.5	11.3	12.8	17.3	22.5	30.8	63.8	284.5
40°	6.8	6.0	5.3	5.3	5.3	5.3	6.0	7.5	11.3	21.0	33.0
42.5°	4.5	3.8	3.8	3.8	3.8	3.8	3.8	3.8	5.3	6.8	13.5
45°	3.0	2.3	2.3	2.3	2.3	2.3	2.3	2.3	3.0	3.8	6.0
47.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	3.0
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	4.5	4.5	3.0
75°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	3.8	4.5	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	3.0	3.0	3.0
82.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	3.0	3.0	3.0
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: P#

CATALOG NUMBER: 4SNLED-LD5-39SL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	310°	315°	320°	325°	330°	335°	340°	341°	342°	343°	344°
0°	2501.5	2501.5	2501.5	2501.5	2501.5	2501.5	2501.5	2501.5	2501.5	2501.5	2501.5
2.5°	2491.8	2491.0	2506.8	2518.8	2514.3	2518.8	2524.1	2524.8	2526.3	2520.3	2518.1
5°	2738.0	2714.8	2669.7	2637.4	2599.9	2531.6	2497.8	2501.5	2502.3	2500.0	2503.0
7.5°	2785.3	2783.1	2767.3	2760.6	2735.0	2686.2	2608.2	2594.6	2561.6	2540.6	2523.3
10°	2666.7	2720.8	2735.0	2759.1	2774.1	2765.1	2699.0	2689.2	2668.2	2644.2	2649.4
12.5°	2538.3	2582.6	2584.9	2715.5	2744.8	2747.8	2722.3	2735.8	2738.8	2684.7	2653.2
15°	2380.7	2401.7	2446.0	2567.6	2656.2	2711.8	2728.3	2735.8	2699.0	2696.7	2684.0
17.5°	2311.6	2325.1	2345.4	2413.7	2548.1	2629.9	2699.8	2694.5	2708.8	2698.2	2666.0
20°	2224.5	2235.8	2271.8	2306.3	2372.4	2481.3	2611.9	2621.7	2640.4	2638.2	2647.2
22.5°	2223.0	2183.2	2189.2	2216.3	2285.3	2382.9	2521.8	2554.1	2566.1	2574.4	2584.1
25°	1763.5	2079.6	2137.4	2154.7	2199.7	2256.8	2420.5	2432.5	2455.0	2491.8	2518.8
27.5°	1527.8	1742.5	1973.8	2093.9	2122.4	2169.7	2267.3	2285.3	2361.9	2370.9	2413.0
30°	1205.7	1371.6	1717.0	2006.0	2053.3	2086.4	2155.4	2191.5	2224.5	2260.6	2304.8
32.5°	1134.4	1160.7	1352.1	1659.9	2027.8	2003.0	2054.1	2075.9	2111.9	2143.4	2175.7
35°	1069.1	1087.1	1127.6	1359.6	1651.7	1934.7	1969.3	1983.5	2003.8	2027.8	2051.1
37.5°	1000.8	1027.8	1055.6	1117.9	1527.8	1880.7	1879.9	1896.4	1908.4	1928.7	1948.2
40°	181.7	943.7	988.8	1029.3	1184.7	1500.0	1795.8	1803.3	1811.6	1824.4	1844.6
42.5°	29.3	157.7	926.4	965.5	1009.8	1343.1	1757.5	1726.8	1721.5	1730.5	1748.5
45°	15.0	38.3	186.2	901.7	941.5	1071.3	1437.0	1673.5	1668.2	1650.9	1654.7
47.5°	11.3	24.0	45.8	311.6	881.4	919.7	1325.9	1311.6	1411.4	1602.9	1573.6
50°	9.8	16.5	27.0	63.8	778.5	846.9	1021.0	1193.0	1245.5	1252.3	1482.0
52.5°	9.0	11.3	19.5	41.3	163.7	783.0	830.3	890.4	979.0	1168.9	1164.4
55°	8.3	10.5	16.5	27.8	57.1	705.7	754.5	765.8	784.5	875.4	995.5
57.5°	4.5	9.8	15.8	24.0	42.8	129.1	684.7	693.7	708.7	712.5	755.3
60°	2.3	9.0	14.3	21.0	31.5	60.1	615.6	626.1	635.1	636.6	650.2
62.5°	1.5	8.3	12.0	19.5	26.3	42.8	145.6	297.3	565.3	565.3	581.1
65°	1.5	6.0	7.5	12.8	24.0	35.3	61.6	71.3	138.9	341.6	509.8
67.5°	1.5	2.3	6.8	10.5	18.0	27.0	45.0	52.6	63.1	72.1	133.6
70°	1.5	1.5	6.0	6.8	11.3	20.3	32.3	36.8	42.8	48.8	56.3
72.5°	1.5	1.5	5.3	5.3	7.5	13.5	24.8	27.0	30.8	34.5	39.8
75°	3.8	3.0	4.5	4.5	5.3	10.5	18.8	21.0	22.5	25.5	29.3
77.5°	3.8	3.8	3.8	3.8	3.8	6.8	12.0	13.5	15.8	17.3	20.3
80°	3.0	3.0	3.0	3.8	3.8	4.5	7.5	8.3	9.0	11.3	12.0
82.5°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	4.5	5.3	6.8
85°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	3.0	3.0	3.0	3.0
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: P#

CATALOG NUMBER: 4SNLED-LD5-39SL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	345°	346°	347°	348°	349°	350°	351°	352°	353°	354°	355°
0°	2501.5	2501.5	2501.5	2501.5	2501.5	2501.5	2501.5	2501.5	2501.5	2501.5	2501.5
2.5°	2517.3	2512.8	2509.1	2511.3	2504.6	2501.5	2503.8	2504.6	2506.1	2509.8	2510.6
5°	2510.6	2509.1	2515.8	2519.6	2518.1	2519.6	2519.6	2516.6	2512.1	2515.1	2508.3
7.5°	2506.1	2496.3	2488.8	2490.3	2482.8	2491.8	2500.0	2512.1	2515.8	2515.8	2508.3
10°	2583.4	2572.9	2530.8	2502.3	2483.5	2467.0	2506.1	2466.3	2485.0	2413.7	2495.5
12.5°	2647.2	2661.5	2642.7	2564.6	2551.1	2501.5	2530.1	2481.3	2467.0	2385.2	2411.5
15°	2672.7	2645.7	2639.7	2617.9	2588.6	2574.4	2497.8	2489.5	2466.3	2475.3	2440.7
17.5°	2650.2	2663.7	2645.7	2631.4	2601.4	2567.6	2521.8	2481.3	2449.0	2376.9	2437.7
20°	2628.4	2646.4	2592.4	2601.4	2604.4	2565.4	2541.3	2507.6	2467.0	2399.4	2346.9
22.5°	2592.4	2579.6	2584.1	2570.6	2559.4	2564.6	2531.6	2508.3	2440.0	2409.2	2337.9
25°	2533.8	2529.3	2541.3	2539.8	2512.8	2503.8	2487.3	2462.5	2435.5	2385.9	2327.4
27.5°	2438.5	2461.8	2482.8	2492.5	2478.3	2454.3	2445.2	2431.0	2412.2	2361.9	2318.4
30°	2337.9	2364.2	2388.2	2409.2	2422.0	2411.5	2403.2	2394.9	2366.4	2333.4	2284.6
32.5°	2223.0	2257.5	2290.6	2316.1	2343.9	2352.1	2346.1	2339.4	2315.4	2285.3	2246.3
35°	2090.1	2137.4	2185.5	2231.3	2243.3	2262.8	2282.3	2271.1	2258.3	2228.3	2192.2
37.5°	1977.5	2011.3	2045.8	2103.6	2145.7	2170.5	2205.0	2209.5	2187.7	2173.5	2126.2
40°	1861.1	1891.9	1942.2	1976.0	2033.8	2062.4	2099.1	2115.7	2110.4	2102.1	2060.8
42.5°	1769.6	1784.6	1817.6	1847.6	1904.7	1963.3	1995.5	2013.6	2032.3	2025.6	2004.5
45°	1672.0	1685.5	1696.7	1723.0	1778.6	1830.4	1870.2	1897.2	1931.0	1946.7	1921.2
47.5°	1575.1	1578.9	1592.4	1614.1	1647.2	1687.0	1753.8	1794.3	1825.9	1856.6	1840.1
50°	1500.8	1487.3	1489.5	1503.0	1530.1	1569.1	1617.1	1674.2	1710.2	1747.8	1751.5
52.5°	1311.6	1421.2	1394.9	1402.4	1416.7	1435.5	1485.8	1542.1	1586.4	1618.6	1650.9
55°	1100.6	1122.4	1333.4	1303.3	1312.3	1328.9	1352.1	1408.4	1451.2	1496.3	1541.3
57.5°	853.6	1015.8	1024.0	1219.2	1214.7	1216.2	1235.8	1268.0	1310.8	1367.1	1405.4
60°	663.7	732.0	864.9	932.4	1103.6	1109.6	1120.9	1139.7	1176.4	1229.8	1290.6
62.5°	585.6	594.6	641.9	743.3	854.4	988.8	1012.8	1015.8	1032.3	1085.6	1156.2
65°	514.3	520.3	534.5	545.1	638.2	768.0	883.7	902.4	912.9	944.5	1004.5
67.5°	354.4	448.2	461.0	468.5	477.5	537.5	680.9	776.3	788.3	816.1	868.6
70°	68.3	141.9	388.1	396.4	400.9	414.4	437.7	589.4	668.9	695.2	719.2
72.5°	46.5	54.8	66.1	156.2	330.3	337.8	343.1	362.6	497.0	573.6	586.3
75°	33.8	37.5	44.3	54.8	67.6	220.0	272.5	282.3	292.0	403.2	467.7
77.5°	24.0	27.0	30.0	35.3	41.3	53.3	76.6	211.0	220.7	226.0	319.1
80°	13.5	16.5	20.3	23.3	26.3	30.0	39.0	48.8	108.9	159.2	167.4
82.5°	7.5	9.0	10.5	12.8	14.3	18.0	21.8	26.3	34.5	51.1	108.1
85°	3.8	3.8	3.8	5.3	6.0	8.3	9.8	11.3	15.8	21.8	30.0
87.5°	2.3	2.3	3.0	3.0	3.0	3.8	3.8	3.8	4.5	6.8	9.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-39SL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	356°	357°	358°	359°	360°
0°	2501.5	2501.5	2501.5	2501.5	2501.5
2.5°	2511.3	2509.1	2509.1	2518.1	2515.8
5°	2506.8	2504.6	2503.8	2513.6	2509.1
7.5°	2503.0	2494.8	2492.5	2501.5	2497.8
10°	2488.0	2482.0	2485.8	2482.8	2481.3
12.5°	2462.5	2458.8	2443.0	2444.5	2457.3
15°	2416.7	2431.7	2404.7	2428.7	2434.0
17.5°	2332.6	2366.4	2392.7	2407.0	2409.2
20°	2370.2	2381.4	2367.9	2368.7	2377.7
22.5°	2321.4	2326.6	2330.4	2325.9	2345.4
25°	2243.3	2223.0	2266.6	2275.6	2307.1
27.5°	2219.3	2202.7	2223.0	2221.5	2247.8
30°	2199.7	2146.4	2155.4	2169.7	2202.0
32.5°	2172.0	2087.9	2078.9	2110.4	2146.4
35°	2123.2	2043.6	2022.6	2042.8	2096.9
37.5°	2081.9	1982.0	1940.0	1967.0	2037.6
40°	2020.3	1934.0	1868.7	1892.7	1976.0
42.5°	1946.7	1892.7	1792.1	1808.6	1903.9
45°	1872.4	1824.4	1717.7	1726.0	1839.4
47.5°	1796.6	1752.3	1640.4	1641.9	1756.8
50°	1722.3	1663.7	1571.4	1545.1	1669.0
52.5°	1625.4	1571.4	1501.5	1458.7	1585.6
55°	1533.8	1473.0	1421.9	1355.9	1491.0
57.5°	1444.5	1376.9	1342.4	1257.5	1383.7
60°	1322.1	1289.8	1238.8	1157.7	1286.8
62.5°	1196.7	1186.2	1134.4	1050.3	1167.4
65°	1050.3	1075.1	1021.8	949.7	1043.6
67.5°	912.2	956.5	897.9	853.6	924.2
70°	765.0	816.1	783.0	767.3	797.3
72.5°	620.1	669.7	672.7	661.4	671.2
75°	479.0	533.8	563.8	546.6	548.8
77.5°	363.4	389.6	422.7	436.2	433.2
80°	224.5	270.3	297.3	325.1	315.3
82.5°	113.4	151.7	184.7	214.7	200.5
85°	47.3	60.8	84.8	111.9	107.4
87.5°	14.3	24.0	25.5	36.0	33.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)