

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: **2SNLED-LD5-43HL-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: 2SNLED-LD5-43HL-RM-UNV-L950-CD1-U
Description: 2FT LINEAR SNLED LED FIXTURE
METALIC FINISH REFLECTOR
Light Source: -
Ballast/Driver: -

Summary

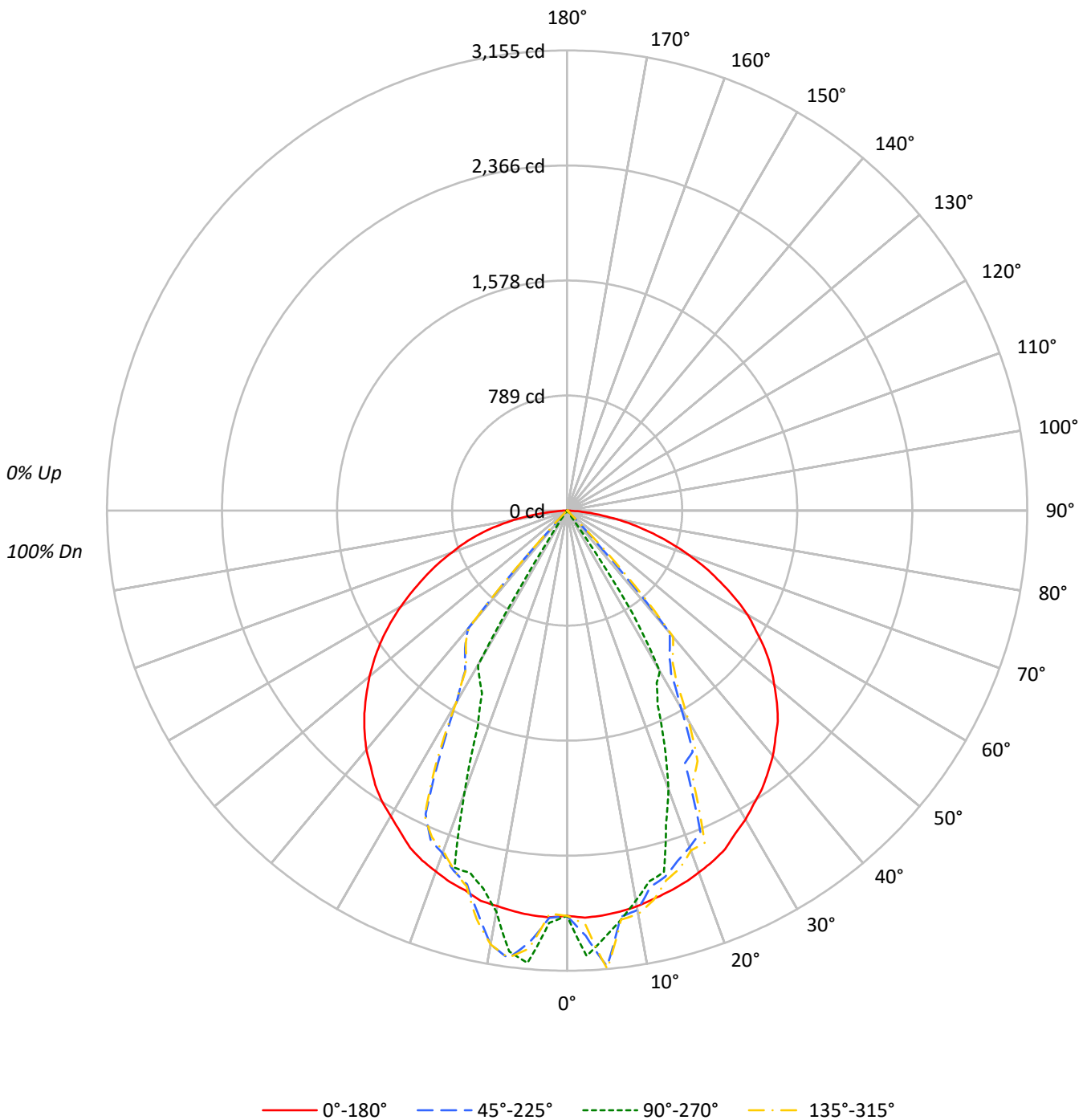
Lumens per Lamp: N/A
Luminaire Lumens: 3950.0 lumens
Efficiency: N/A
Efficacy: 109.7 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 0.81 / 0.97
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 2' x H: 0.12')
CIE Type: Direct

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: 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	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°	44897	44897	44897	44897
5°	44958	46177	44944	48900
10°	44727	41785	44701	42990
15°	44480	39000	44370	39102
20°	44403	30719	44277	31098
25°	44394	22230	44177	20978
30°	44046	19501	43579	18746
35°	44017	430	43371	520
40°	43989	93	42936	93
45°	43941	55	42291	42
50°	43368	43	41379	43
55°	42833	31	40200	31
60°	41679	33	38421	33
65°	39081	53	36296	36
70°	35708	58	33994	58
75°	30857	65	31363	65
80°	24065	74	25439	74
85°	12893	88	13164	88



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	278.7	7.1
10°-20°	760.2	19.2
20°-30°	967.3	24.5
30°-40°	817.1	20.7
40°-50°	534.2	13.5
50°-60°	336.6	8.5
60°-70°	179.2	4.5
70°-80°	65.3	1.7
80°-90°	11.2	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°	2006.3	50.8
0°-40°	2823.4	71.5
0°-60°	3694.2	93.5
0°-90°	3950.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3950.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2778	2778	2778	2778	2778	
5°	2786	2940	2785	3113	2786	265
15°	2703	2565	2696	2572	2703	764
25°	2562	1465	2550	1382	2562	1178
35°	2329	28	2294	33	2329	1457
45°	2043	3	1966	2	2043	1571
55°	1656	2	1554	2	1656	1475
65°	1159	2	1076	2	1159	1148
75°	609	2	619	2	609	647
85°	119	2	122	2	119	151
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°	2777.9	2777.9	2777.9	2777.9	2777.9	2777.9	2777.9	2777.9	2777.9	2777.9	2777.9
2.5°	2793.8	2795.4	2796.3	2797.9	2800.4	2801.3	2802.9	2801.3	2801.3	2801.3	2801.3
5°	2786.3	2789.6	2792.1	2795.4	2801.3	2802.1	2808.8	2809.6	2813.0	2819.6	2824.6
7.5°	2773.8	2777.1	2782.1	2790.4	2798.8	2807.9	2819.6	2832.1	2849.6	2866.3	2887.2
10°	2755.4	2759.6	2765.4	2772.9	2813.8	2819.6	2845.5	2881.3	2891.3	2943.8	2983.0
12.5°	2728.7	2742.9	2757.9	2764.6	2803.8	2865.5	2952.2	2934.7	2915.5	3087.2	3084.7
15°	2702.9	2722.1	2714.6	2768.8	2804.6	2912.2	2875.5	2953.8	3097.2	3062.2	3063.9
17.5°	2675.4	2679.6	2721.2	2766.3	2830.5	2885.5	2930.5	3038.1	3066.4	3068.9	3038.1
20°	2640.4	2660.4	2721.2	2762.1	2870.5	2896.3	2993.9	3048.9	3037.2	3008.9	2956.4
22.5°	2604.5	2665.4	2727.1	2784.6	2860.5	2929.7	2978.0	3003.9	2943.0	2831.3	2771.3
25°	2562.0	2597.9	2678.7	2762.9	2858.0	2898.0	2926.3	2884.7	2805.4	2705.4	2604.5
27.5°	2496.1	2553.7	2657.0	2752.1	2838.0	2886.3	2840.5	2740.4	2612.9	2547.0	2501.1
30°	2445.3	2520.3	2605.4	2697.1	2786.3	2814.6	2697.9	2583.7	2496.1	2430.3	2420.3
32.5°	2383.6	2490.3	2571.2	2658.7	2733.7	2696.2	2582.8	2435.3	2362.7	2337.7	2347.7
35°	2328.6	2409.4	2515.3	2601.2	2655.4	2571.2	2391.9	2300.2	2265.2	2279.4	2261.0
37.5°	2262.7	2369.4	2467.0	2541.2	2522.8	2396.1	2244.4	2186.0	2190.2	2178.5	2143.5
40°	2194.3	2296.0	2397.8	2467.8	2403.6	2210.2	2109.3	2096.8	2099.3	2061.8	2011.8
42.5°	2114.3	2206.8	2308.6	2371.9	2233.5	2082.6	2014.3	2015.9	1994.2	1941.7	1915.0
45°	2042.6	2127.6	2233.5	2239.4	2069.3	1943.4	1923.4	1901.7	1853.3	1835.8	1815.8
47.5°	1950.9	2045.1	2132.6	2101.0	1908.4	1830.0	1815.0	1767.5	1743.3	1730.0	1713.3
50°	1853.3	1948.4	2028.4	1938.4	1756.6	1738.3	1689.1	1651.6	1634.9	1620.7	1605.7
52.5°	1760.8	1839.2	1920.9	1765.8	1639.9	1622.4	1566.5	1544.9	1528.2	1512.4	1509.0
55°	1655.8	1725.0	1780.8	1601.6	1528.2	1487.3	1447.3	1432.3	1416.5	1409.0	1421.5
57.5°	1536.5	1614.9	1606.6	1439.8	1407.3	1348.1	1333.1	1323.1	1311.4	1316.4	1212.2
60°	1429.0	1489.0	1448.2	1321.4	1266.4	1226.4	1213.1	1206.4	1213.1	1111.3	977.1
62.5°	1296.4	1364.0	1281.4	1183.0	1124.7	1105.5	1093.8	1103.0	1005.5	893.7	861.2
65°	1158.9	1232.2	1110.5	1034.6	998.0	981.3	980.4	902.9	807.0	763.7	763.7
67.5°	1026.3	1102.2	945.4	882.1	867.9	869.6	821.2	703.7	677.0	647.8	563.6
70°	885.4	952.1	781.2	742.8	734.5	728.7	611.1	579.4	547.8	470.2	463.5
72.5°	745.3	777.9	627.8	618.6	616.9	512.7	489.4	435.2	398.5	389.3	385.2
75°	609.4	599.4	496.1	504.4	425.2	388.5	351.0	319.3	314.3	311.0	77.5
77.5°	481.1	431.0	391.0	340.2	304.3	258.5	250.9	245.9	161.7	58.4	47.5
80°	350.2	279.3	260.1	220.9	188.4	180.9	185.1	56.7	45.0	37.5	32.5
82.5°	222.6	178.4	145.9	127.6	124.2	54.2	40.0	32.5	28.3	24.2	20.0
85°	119.2	79.2	73.4	61.7	36.7	25.0	20.8	15.8	13.3	10.8	10.0
87.5°	37.5	31.7	25.8	20.8	12.5	8.3	6.7	5.8	5.0	4.2	4.2
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°	2777.9	2777.9	2777.9	2777.9	2777.9	2777.9	2777.9	2777.9	2777.9	2777.9	2777.9
2.5°	2799.6	2801.3	2800.4	2802.9	2802.9	2806.3	2808.8	2811.3	2816.3	2818.8	2838.0
5°	2835.5	2839.6	2852.1	2863.8	2878.0	2882.1	2906.3	2912.2	2940.5	2943.8	3037.2
7.5°	2915.5	2931.3	2961.4	2991.4	3021.4	3040.6	3073.9	3094.7	3117.3	3137.3	3211.5
10°	3012.2	3038.9	3068.1	3098.1	3115.6	3152.3	3172.3	3175.6	3169.8	3137.3	3017.2
12.5°	3107.3	3133.9	3121.4	3127.3	3148.1	3083.1	3092.2	3045.6	3078.1	2917.2	2797.9
15°	3093.9	3092.2	3061.4	2961.4	2978.0	2853.8	2803.8	2765.4	2796.3	2779.6	2761.3
17.5°	3053.9	2978.0	2924.7	2804.6	2753.8	2718.7	2719.6	2720.4	2705.4	2721.2	2674.6
20°	2884.7	2799.6	2720.4	2677.9	2662.9	2637.9	2650.4	2637.9	2638.7	2643.7	2572.0
22.5°	2659.5	2633.7	2587.8	2601.2	2596.2	2618.7	2602.0	2576.2	2584.5	2547.0	2492.8
25°	2568.7	2538.7	2537.0	2542.0	2534.5	2524.5	2509.5	2470.3	2467.8	2456.1	2431.1
27.5°	2477.0	2478.6	2483.6	2468.6	2441.9	2421.9	2399.4	2380.3	2387.8	2374.4	2340.2
30°	2413.6	2412.8	2382.8	2369.4	2320.2	2321.1	2315.2	2303.6	2296.0	2296.9	2275.2
32.5°	2323.6	2297.7	2263.5	2246.9	2242.7	2227.7	2216.0	2218.5	2224.3	2203.5	2226.0
35°	2231.0	2177.7	2172.7	2158.5	2145.1	2135.1	2139.3	2122.6	2121.8	2119.3	1935.9
37.5°	2106.8	2081.0	2078.4	2063.4	2054.3	2051.8	2035.9	2038.4	2045.9	2059.3	1650.8
40°	2004.2	1980.9	1975.1	1974.2	1954.2	1952.6	1956.7	1972.6	1983.4	1900.0	1573.2
42.5°	1894.2	1895.9	1877.5	1865.9	1868.4	1875.9	1895.9	1840.8	1594.9	1519.9	1438.2
45°	1800.0	1791.7	1781.6	1778.3	1800.0	1785.0	1564.9	1444.0	1414.8	1411.5	1182.2
47.5°	1701.6	1699.1	1694.9	1697.4	1574.1	1403.1	1353.1	1337.3	1342.3	1338.9	1015.5
50°	1602.4	1605.7	1605.7	1402.3	1287.3	1258.9	1263.1	1277.3	1188.9	1109.7	946.3
52.5°	1516.5	1490.7	1277.3	1203.9	1178.0	1190.5	1160.5	1049.6	969.6	922.9	875.4
55°	1357.3	1167.2	1119.7	1108.0	1117.2	1006.3	937.9	866.2	845.4	840.4	812.9
57.5°	1068.0	1029.6	1033.8	987.1	881.2	818.7	791.2	781.2	772.0	765.3	66.7
60°	944.6	955.4	874.6	774.5	732.0	723.7	717.0	707.8	706.2	694.5	42.5
62.5°	864.6	760.3	690.3	665.3	655.3	652.8	640.3	636.1	540.2	74.2	31.7
65°	652.0	609.4	596.1	590.3	579.4	579.4	481.1	75.9	61.7	53.4	28.3
67.5°	531.9	528.6	521.9	514.4	350.2	73.4	64.2	55.9	48.4	42.5	25.0
70°	450.2	448.5	408.5	75.0	62.5	55.0	48.4	43.4	40.0	35.8	22.5
72.5°	369.3	75.0	63.4	55.0	47.5	43.4	39.2	35.0	31.7	29.2	18.3
75°	57.5	50.9	45.0	40.9	37.5	33.3	30.0	27.5	26.7	23.3	12.5
77.5°	41.7	35.8	32.5	29.2	25.8	23.3	20.0	17.5	15.8	13.3	9.2
80°	29.2	25.8	23.3	19.2	16.7	14.2	12.5	10.8	10.0	8.3	4.2
82.5°	16.7	14.2	12.5	10.0	9.2	7.5	6.7	5.8	5.8	4.2	4.2
85°	7.5	7.5	5.8	5.0	4.2	4.2	4.2	3.3	3.3	2.5	2.5
87.5°	3.3	3.3	3.3	3.3	3.3	2.5	2.5	2.5	2.5	2.5	1.7
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°	2777.9	2777.9	2777.9	2777.9	2777.9	2777.9	2777.9	2777.9	2777.9	2777.9	2777.9
2.5°	2864.6	2875.5	2896.3	2918.0	2893.8	2980.5	2973.9	3003.0	3018.9	3026.4	3043.9
5°	3119.8	3168.1	3184.0	3136.4	3108.9	3080.6	3016.4	2968.0	2973.9	2958.0	2900.5
7.5°	3114.8	3011.4	2872.1	2808.8	2803.8	2796.3	2816.3	2828.0	2829.6	2828.8	2827.1
10°	2851.3	2797.9	2788.8	2780.4	2783.8	2752.9	2738.8	2698.7	2720.4	2708.7	2712.9
12.5°	2771.3	2758.8	2709.6	2641.2	2682.1	2651.2	2633.7	2645.4	2632.0	2619.5	2615.4
15°	2723.7	2642.9	2615.4	2598.7	2587.0	2580.3	2586.2	2572.8	2568.7	2566.2	2572.0
17.5°	2625.4	2592.9	2562.8	2518.7	2519.5	2517.0	2533.7	2558.7	2560.3	2431.9	2316.1
20°	2547.8	2521.2	2482.8	2455.3	2492.8	2426.1	2168.5	2045.9	2026.8	2026.8	2030.1
22.5°	2486.1	2426.9	2429.4	2386.1	2035.1	1963.4	1965.1	1972.6	1938.4	1821.7	1809.2
25°	2401.9	2392.8	2210.2	1910.0	1912.5	1856.7	1770.8	1649.9	1519.0	1519.0	1497.4
27.5°	2338.6	2144.3	1877.5	1865.0	1677.4	1559.0	1485.7	1374.8	1359.8	1345.6	1347.3
30°	2284.4	1814.2	1820.8	1559.0	1420.6	1322.3	1316.4	1298.1	1288.9	1286.4	1277.3
32.5°	1805.8	1766.6	1524.0	1327.3	1273.1	1257.2	1249.7	1228.9	1228.1	1212.2	1102.2
35°	1693.3	1550.7	1275.6	1222.2	1206.4	1191.4	1178.9	791.2	93.4	37.5	32.5
37.5°	1564.9	1295.6	1179.7	1155.5	1140.5	842.9	84.2	29.2	20.8	15.0	13.3
40°	1326.4	1157.2	1120.5	1093.8	451.0	29.2	18.3	14.2	8.3	7.5	6.7
42.5°	1118.8	1090.5	1051.3	320.1	33.3	14.2	9.2	6.7	5.8	5.8	5.0
45°	1047.1	1022.1	423.5	31.7	20.8	6.7	5.8	5.8	5.0	3.3	3.3
47.5°	980.4	862.9	38.4	20.0	13.3	5.8	5.0	3.3	3.3	3.3	2.5
50°	909.6	47.5	26.7	15.0	8.3	3.3	3.3	3.3	3.3	2.5	2.5
52.5°	170.1	33.3	21.7	13.3	4.2	3.3	3.3	3.3	2.5	2.5	2.5
55°	40.0	26.7	20.0	11.7	3.3	3.3	3.3	2.5	2.5	2.5	1.7
57.5°	30.0	20.0	15.8	10.8	3.3	2.5	2.5	2.5	2.5	2.5	1.7
60°	25.0	14.2	12.5	10.0	2.5	2.5	2.5	2.5	2.5	2.5	1.7
62.5°	17.5	11.7	9.2	7.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
65°	14.2	9.2	7.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
67.5°	12.5	7.5	5.0	1.7	2.5	2.5	2.5	2.5	2.5	2.5	2.5
70°	10.0	2.5	2.5	1.7	2.5	2.5	2.5	2.5	2.5	2.5	2.5
72.5°	8.3	2.5	1.7	1.7	2.5	2.5	2.5	2.5	2.5	2.5	2.5
75°	8.3	4.2	1.7	1.7	2.5	2.5	3.3	3.3	2.5	2.5	2.5
77.5°	5.8	4.2	1.7	1.7	2.5	2.5	3.3	3.3	2.5	2.5	2.5
80°	3.3	4.2	1.7	2.5	2.5	5.0	5.8	3.3	2.5	2.5	2.5
82.5°	3.3	4.2	5.0	5.0	2.5	4.2	5.0	4.2	3.3	2.5	2.5
85°	3.3	2.5	3.3	4.2	2.5	4.2	4.2	3.3	3.3	2.5	2.5
87.5°	1.7	2.5	2.5	3.3	3.3	3.3	4.2	3.3	3.3	3.3	2.5
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: 2SNLED-LD5-43HL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	85°	90°	95°	100°	105°	110°	115°	120°	125°	130°	135°
0°	2777.9	2777.9	2777.9	2777.9	2777.9	2777.9	2777.9	2777.9	2777.9	2777.9	2777.9
2.5°	3052.2	3055.6	3003.0	2984.7	3000.5	2997.2	2983.0	2930.5	2924.7	2889.7	2838.8
5°	2917.2	2939.7	2912.2	2959.7	2937.2	2959.7	3028.0	3059.7	3111.4	3143.1	3154.8
7.5°	2823.0	2828.0	2828.0	2832.1	2836.3	2837.1	2832.1	2828.8	2814.6	2797.1	2828.8
10°	2708.7	2714.6	2724.6	2722.9	2722.1	2739.6	2743.8	2779.6	2777.9	2784.6	2808.8
12.5°	2649.5	2604.5	2645.4	2634.5	2649.5	2626.2	2669.6	2662.0	2664.6	2684.6	2736.2
15°	2551.2	2565.3	2575.3	2575.3	2581.2	2576.2	2571.2	2605.4	2626.2	2627.0	2623.7
17.5°	2361.9	2254.4	2364.4	2336.1	2562.0	2567.8	2548.7	2532.8	2532.8	2545.3	2572.0
20°	2027.6	2030.1	2030.9	2041.8	2055.1	2054.3	2055.1	2383.6	2539.5	2503.6	2479.5
22.5°	1777.5	1746.6	1804.2	1800.0	1871.7	1950.9	2026.8	2019.3	2024.3	2256.0	2464.5
25°	1424.8	1464.8	1432.3	1446.5	1527.4	1621.6	1679.9	1832.5	1998.4	1986.7	2040.9
27.5°	1341.4	1330.6	1345.6	1345.6	1356.5	1369.0	1401.5	1487.3	1634.9	1790.0	1936.7
30°	1262.2	1271.4	1273.1	1288.1	1296.4	1304.8	1309.8	1342.3	1375.6	1483.2	1664.1
32.5°	947.9	831.2	1093.8	1164.7	1224.7	1238.9	1248.9	1262.2	1286.4	1302.3	1393.1
35°	27.5	27.5	29.2	33.3	42.5	286.8	1092.2	1203.9	1219.7	1239.7	1256.4
37.5°	13.3	10.0	11.7	12.5	15.0	20.8	30.0	93.4	1039.6	1175.5	1193.9
40°	5.8	5.8	5.8	5.8	6.7	8.3	12.5	20.8	31.7	836.2	1128.0
42.5°	5.0	5.0	5.0	5.0	5.0	5.0	5.8	7.5	15.0	35.8	591.9
45°	3.3	3.3	2.5	3.3	3.3	4.2	5.0	5.0	6.7	22.5	40.9
47.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	4.2	5.0	15.0	21.7
50°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	11.7	15.0
52.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	5.0	13.3
55°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	2.5	2.5	3.3	11.7
57.5°	1.7	1.7	1.7	1.7	1.7	2.5	1.7	1.7	2.5	2.5	10.8
60°	1.7	1.7	1.7	1.7	1.7	2.5	2.5	2.5	2.5	2.5	10.0
62.5°	2.5	2.5	1.7	2.5	1.7	1.7	2.5	2.5	2.5	2.5	6.7
65°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	1.7	2.5
67.5°	2.5	2.5	2.5	2.5	1.7	2.5	1.7	2.5	2.5	1.7	1.7
70°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	1.7	1.7	1.7	1.7
72.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	1.7	1.7	1.7	1.7
75°	2.5	2.5	2.5	2.5	2.5	2.5	3.3	3.3	1.7	1.7	1.7
77.5°	2.5	2.5	2.5	2.5	2.5	2.5	4.2	5.0	4.2	4.2	1.7
80°	2.5	2.5	2.5	2.5	2.5	2.5	4.2	4.2	4.2	4.2	5.8
82.5°	2.5	2.5	2.5	2.5	2.5	2.5	3.3	3.3	3.3	3.3	4.2
85°	2.5	2.5	2.5	2.5	2.5	2.5	3.3	3.3	3.3	2.5	3.3
87.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	3.3	2.5	2.5	2.5
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: 2SNLED-LD5-43HL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	140°	145°	150°	155°	160°	161°	162°	163°	164°	165°	166°
0°	2777.9	2777.9	2777.9	2777.9	2777.9	2777.9	2777.9	2777.9	2777.9	2777.9	2777.9
2.5°	2843.0	2814.6	2805.4	2786.3	2784.6	2786.3	2782.1	2776.3	2779.6	2773.8	2768.8
5°	3161.4	3085.6	3036.4	2970.5	2879.6	2859.6	2854.6	2826.3	2816.3	2813.0	2799.6
7.5°	2903.8	3042.2	3125.6	3153.9	3047.2	3022.2	2993.0	2969.7	2947.2	2904.7	2878.8
10°	2789.6	2796.3	2876.3	2969.7	3121.4	3142.3	3158.1	3107.3	3093.1	2984.7	2961.4
12.5°	2762.9	2763.8	2772.9	2829.6	2948.8	2962.2	3018.0	3048.1	3084.7	3105.6	3088.9
15°	2641.2	2708.7	2758.8	2763.8	2774.6	2797.9	2814.6	2918.8	2963.0	3081.4	3074.7
17.5°	2584.5	2606.2	2678.7	2737.9	2727.9	2719.6	2732.9	2747.1	2789.6	2908.0	2906.3
20°	2490.3	2559.5	2598.7	2660.4	2716.2	2718.7	2703.7	2695.4	2678.7	2697.9	2715.4
22.5°	2450.3	2461.1	2534.5	2577.8	2641.2	2663.7	2667.1	2667.9	2658.7	2648.7	2643.7
25°	2446.1	2411.9	2449.5	2503.6	2550.3	2574.5	2602.0	2611.2	2607.9	2607.9	2602.9
27.5°	2001.7	2401.1	2381.1	2416.9	2473.6	2490.3	2504.5	2532.8	2550.3	2562.8	2568.7
30°	1906.7	1978.4	2327.7	2332.7	2390.3	2388.6	2404.4	2427.8	2450.3	2479.5	2487.0
32.5°	1686.6	1862.5	2131.0	2248.5	2308.6	2314.4	2322.7	2329.4	2350.2	2382.8	2411.1
35°	1351.5	1696.6	1825.8	2208.5	2219.3	2231.0	2236.0	2251.9	2258.5	2271.9	2296.9
37.5°	1223.1	1402.3	1751.6	1910.0	2116.8	2126.8	2153.5	2160.2	2171.0	2181.8	2201.0
40°	1148.9	1198.0	1458.2	1705.8	2034.3	2040.9	2050.1	2066.8	2067.6	2080.1	2097.6
42.5°	1089.7	1121.3	1197.2	1629.1	1975.9	1975.1	1953.4	1964.2	1969.2	1982.6	2006.7
45°	870.4	1052.1	1100.5	1330.6	1573.2	1686.6	1904.2	1868.4	1867.5	1872.5	1898.4
47.5°	44.2	989.6	1023.8	1098.0	1485.7	1489.8	1518.2	1756.6	1793.3	1781.6	1784.1
50°	30.0	68.4	953.8	988.0	1280.6	1384.0	1404.8	1415.6	1553.2	1706.6	1681.6
52.5°	23.3	39.2	584.4	917.1	1040.5	1116.3	1250.6	1327.3	1335.6	1397.3	1606.6
55°	20.8	30.0	63.4	846.2	884.6	901.2	979.6	1113.8	1222.2	1254.7	1257.2
57.5°	18.3	27.5	43.4	382.7	804.5	807.9	821.2	867.9	965.4	1054.6	1155.5
60°	16.7	24.2	34.2	65.9	731.2	739.5	742.0	754.5	766.2	827.0	942.9
62.5°	10.0	19.2	30.0	47.5	578.6	664.5	663.6	672.0	682.8	689.5	712.8
65°	8.3	15.0	25.8	40.0	70.9	88.4	536.9	596.9	603.6	612.8	616.9
67.5°	7.5	13.3	19.2	31.7	53.4	60.9	70.0	86.7	473.5	533.6	541.9
70°	6.7	9.2	15.8	26.7	43.4	46.7	52.5	60.0	70.9	87.5	428.5
72.5°	4.2	6.7	10.8	19.2	33.3	37.5	40.9	45.9	50.9	60.9	70.0
75°	1.7	5.0	9.2	14.2	25.8	28.3	30.8	34.2	38.4	45.0	50.0
77.5°	1.7	4.2	7.5	10.0	16.7	19.2	22.5	25.0	28.3	31.7	36.7
80°	5.8	3.3	5.0	7.5	11.7	12.5	14.2	15.8	18.3	20.8	24.2
82.5°	4.2	5.0	5.8	5.0	5.8	7.5	8.3	10.0	10.8	12.5	13.3
85°	3.3	3.3	4.2	4.2	4.2	4.2	4.2	4.2	5.0	5.8	7.5
87.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	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: P#

CATALOG NUMBER: 2SNLED-LD5-43HL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	167°	168°	169°	170°	171°	172°	173°	174°	175°	176°	177°
0°	2777.9	2777.9	2777.9	2777.9	2777.9	2777.9	2777.9	2777.9	2777.9	2777.9	2777.9
2.5°	2768.8	2767.1	2762.1	2762.1	2761.3	2764.6	2767.1	2769.6	2768.8	2773.8	2768.8
5°	2789.6	2785.4	2777.9	2771.3	2768.8	2770.4	2767.9	2770.4	2767.1	2771.3	2763.8
7.5°	2847.1	2833.0	2803.8	2792.1	2777.1	2776.3	2768.8	2767.1	2762.1	2762.1	2752.9
10°	2948.8	2880.5	2872.1	2837.1	2824.6	2763.8	2777.1	2754.6	2752.1	2741.3	2737.1
12.5°	3032.2	2978.9	2963.0	2932.2	2897.2	2773.8	2801.3	2752.9	2750.4	2728.7	2706.2
15°	3033.9	3064.7	3021.4	2936.3	2928.8	2843.8	2787.9	2771.3	2749.6	2684.6	2695.4
17.5°	2936.3	3007.2	3028.0	3009.7	2956.4	2898.8	2820.5	2787.1	2722.1	2692.9	2672.9
20°	2777.9	2849.6	2938.8	2944.7	2978.0	2937.2	2834.6	2780.4	2702.1	2651.2	2634.5
22.5°	2652.0	2704.6	2807.1	2854.6	2895.5	2909.7	2844.6	2764.6	2667.1	2617.9	2607.9
25°	2585.3	2597.0	2627.9	2683.7	2773.8	2838.8	2848.0	2762.9	2712.1	2604.5	2547.8
27.5°	2561.2	2551.2	2538.7	2567.0	2634.5	2713.7	2766.3	2780.4	2653.7	2551.2	2494.5
30°	2499.5	2505.3	2486.1	2476.1	2520.3	2602.0	2695.4	2718.7	2621.2	2515.3	2450.3
32.5°	2423.6	2433.6	2436.9	2419.4	2410.3	2467.0	2567.8	2623.7	2618.7	2464.5	2391.9
35°	2328.6	2356.9	2364.4	2365.2	2350.2	2341.1	2399.4	2515.3	2559.5	2441.1	2336.1
37.5°	2228.5	2236.9	2277.7	2288.5	2288.5	2261.0	2304.4	2396.9	2458.6	2388.6	2267.7
40°	2103.5	2130.1	2168.5	2187.7	2206.8	2209.3	2185.2	2250.2	2351.9	2334.4	2203.5
42.5°	2012.6	2030.1	2053.4	2079.3	2118.5	2128.5	2103.5	2115.1	2221.0	2266.9	2120.1
45°	1906.7	1930.0	1936.7	1965.1	2005.9	2035.1	2034.3	2010.1	2095.1	2151.8	2059.3
47.5°	1798.3	1820.8	1832.5	1846.7	1876.7	1914.2	1935.1	1924.2	1940.9	2051.8	1978.4
50°	1686.6	1699.1	1722.5	1738.3	1758.3	1780.0	1830.0	1840.0	1816.7	1905.0	1889.2
52.5°	1580.7	1584.9	1600.7	1616.6	1643.3	1659.1	1699.1	1729.1	1727.5	1753.3	1790.0
55°	1498.2	1479.8	1483.2	1495.7	1513.2	1537.4	1559.9	1606.6	1622.4	1627.4	1685.8
57.5°	1170.5	1359.0	1375.6	1374.8	1395.6	1406.5	1427.3	1458.2	1514.9	1502.4	1567.4
60°	1063.8	1084.7	1242.2	1260.6	1268.1	1278.1	1303.1	1331.4	1373.1	1399.8	1428.2
62.5°	811.2	937.9	985.5	1124.7	1146.4	1152.2	1168.9	1182.2	1225.6	1286.4	1274.7
65°	627.8	682.0	827.0	883.7	1002.1	1017.1	1040.5	1054.6	1067.2	1137.2	1140.5
67.5°	542.7	551.1	590.3	699.5	774.5	890.4	904.6	917.1	936.3	986.3	1017.1
70°	463.5	473.5	484.4	493.6	591.1	667.8	775.4	779.5	792.0	825.4	895.4
72.5°	87.5	396.0	402.7	408.5	419.4	470.2	572.8	656.1	661.1	677.0	741.2
75°	59.2	69.2	95.0	326.8	337.7	341.0	358.5	462.7	539.4	542.7	571.1
77.5°	42.5	47.5	57.5	68.4	174.2	261.8	266.0	285.1	364.3	421.9	426.9
80°	29.2	32.5	38.4	43.4	53.4	70.0	193.4	199.3	209.3	288.5	303.5
82.5°	16.7	19.2	22.5	27.5	31.7	40.0	51.7	66.7	135.9	145.1	192.6
85°	8.3	9.2	10.8	13.3	15.8	19.2	25.8	31.7	43.4	78.4	80.9
87.5°	4.2	4.2	4.2	4.2	6.7	7.5	9.2	11.7	15.0	22.5	29.2
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: 2SNLED-LD5-43HL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	178°	179°	180°	181°	182°	183°	184°	185°	186°	187°	188°
0°	2777.9	2777.9	2777.9	2777.9	2777.9	2777.9	2777.9	2777.9	2777.9	2777.9	2777.9
2.5°	2769.6	2781.3	2791.3	2793.8	2793.8	2795.4	2797.9	2799.6	2801.3	2802.9	2801.3
5°	2764.6	2777.1	2785.4	2787.9	2787.9	2792.9	2797.1	2802.1	2804.6	2804.6	2802.9
7.5°	2752.1	2761.3	2772.1	2778.8	2779.6	2787.9	2795.4	2794.6	2797.9	2799.6	2803.8
10°	2735.4	2735.4	2753.8	2758.8	2762.9	2772.1	2774.6	2779.6	2791.3	2792.9	2803.8
12.5°	2727.1	2718.7	2740.4	2742.9	2757.1	2745.4	2760.4	2765.4	2753.8	2769.6	2748.8
15°	2689.6	2699.6	2696.2	2703.7	2728.7	2715.4	2756.3	2742.9	2772.9	2737.1	2800.4
17.5°	2658.7	2657.0	2670.4	2677.1	2682.1	2710.4	2721.2	2736.2	2747.9	2737.9	2762.9
20°	2636.2	2622.9	2632.9	2640.4	2657.9	2679.6	2686.2	2663.7	2702.9	2769.6	2785.4
22.5°	2593.7	2584.5	2596.2	2596.2	2622.9	2619.5	2644.5	2630.4	2667.1	2744.6	2825.5
25°	2536.2	2537.0	2549.5	2564.5	2569.5	2607.0	2620.4	2638.7	2684.6	2777.1	2826.3
27.5°	2477.8	2472.8	2480.3	2511.1	2537.0	2564.5	2568.7	2631.2	2693.7	2757.1	2800.4
30°	2419.4	2414.4	2419.4	2441.9	2472.8	2491.1	2537.0	2620.4	2678.7	2722.1	2762.9
32.5°	2356.9	2351.9	2363.6	2380.3	2434.4	2436.9	2527.8	2606.2	2652.0	2683.7	2676.2
35°	2290.2	2283.5	2294.4	2320.2	2370.2	2388.6	2483.6	2542.0	2593.7	2608.7	2573.7
37.5°	2210.2	2198.5	2211.8	2247.7	2300.2	2353.6	2432.8	2500.3	2527.8	2487.8	2446.1
40°	2126.8	2118.5	2141.8	2160.2	2221.8	2296.0	2386.9	2434.4	2416.9	2371.1	2325.2
42.5°	2052.6	2035.1	2055.9	2091.0	2161.0	2245.2	2318.6	2345.2	2303.6	2236.0	2182.7
45°	1961.7	1940.9	1965.9	2012.6	2087.6	2183.5	2241.0	2231.9	2161.0	2102.6	2029.3
47.5°	1866.7	1841.7	1866.7	1922.5	2006.7	2108.5	2150.1	2108.5	2019.3	1945.9	1886.7
50°	1773.3	1744.1	1768.3	1852.5	1935.1	2013.4	2012.6	1931.7	1878.4	1798.3	1746.6
52.5°	1680.8	1639.1	1663.3	1755.0	1837.5	1926.7	1860.8	1785.8	1721.6	1651.6	1634.9
55°	1566.5	1521.5	1554.0	1687.4	1750.8	1803.3	1698.3	1632.4	1569.0	1534.0	1513.2
57.5°	1458.2	1409.0	1437.3	1594.9	1641.6	1654.9	1558.2	1464.8	1427.3	1415.6	1385.6
60°	1346.4	1290.6	1317.3	1499.0	1531.5	1477.3	1382.3	1309.8	1302.3	1278.9	1255.6
62.5°	1239.7	1178.0	1194.7	1379.8	1394.8	1296.4	1208.9	1189.7	1171.4	1148.0	1135.5
65°	1117.2	1053.0	1076.3	1253.1	1238.9	1112.2	1063.0	1058.8	1034.6	1015.5	1033.8
67.5°	1004.6	928.8	961.3	1114.7	1050.5	947.1	927.1	917.1	897.9	908.7	716.2
70°	881.2	798.7	842.9	965.4	870.4	802.0	794.5	779.5	780.4	620.3	522.7
72.5°	743.7	672.0	736.2	802.0	688.6	668.6	657.8	656.1	529.4	430.2	406.0
75°	622.8	550.3	619.4	644.5	548.6	535.2	534.4	441.9	347.7	331.8	324.3
77.5°	486.1	430.2	496.1	458.5	421.0	406.0	364.3	273.5	261.8	250.9	94.2
80°	327.6	331.8	370.2	316.0	300.1	256.0	201.8	193.4	166.7	66.7	52.5
82.5°	199.3	250.1	235.9	197.6	193.4	139.2	127.6	65.0	48.4	38.4	33.3
85°	103.4	126.7	121.7	107.5	80.0	71.7	40.0	30.8	25.0	19.2	15.8
87.5°	35.0	46.7	45.0	35.8	27.5	21.7	14.2	11.7	8.3	6.7	5.8
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: 2SNLED-LD5-43HL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	189°	190°	191°	192°	193°	194°	195°	196°	197°	198°	199°
0°	2777.9	2777.9	2777.9	2777.9	2777.9	2777.9	2777.9	2777.9	2777.9	2777.9	2777.9
2.5°	2799.6	2799.6	2797.9	2799.6	2800.4	2798.8	2798.8	2800.4	2801.3	2802.1	2806.3
5°	2803.8	2805.4	2807.9	2813.0	2813.8	2823.8	2828.0	2830.5	2833.0	2833.8	2828.0
7.5°	2813.0	2818.8	2823.8	2823.0	2817.1	2801.3	2796.3	2792.1	2799.6	2818.8	2841.3
10°	2821.3	2794.6	2744.6	2813.0	2792.1	2811.3	2868.0	2880.5	2918.8	2973.0	2988.9
12.5°	2763.8	2837.1	2853.0	2776.3	2918.0	2865.5	2928.0	2983.0	2998.9	3053.9	3020.5
15°	2825.5	2861.3	2885.5	2962.2	2953.8	2998.9	3016.4	3005.5	3008.0	3022.2	3059.7
17.5°	2824.6	2896.3	2912.2	2963.9	2998.9	2999.7	2994.7	2989.7	3003.0	3013.9	2991.4
20°	2873.0	2896.3	2927.2	2948.0	2954.7	2963.0	2978.9	2966.4	2941.3	2917.2	2907.2
22.5°	2848.8	2901.3	2928.0	2931.3	2927.2	2901.3	2878.0	2843.0	2831.3	2818.8	2823.0
25°	2853.8	2878.0	2874.6	2861.3	2843.8	2795.4	2783.8	2768.8	2746.3	2692.1	2642.9
27.5°	2818.0	2805.4	2790.4	2757.9	2726.2	2700.4	2671.2	2622.9	2582.8	2524.5	2502.8
30°	2757.9	2707.9	2671.2	2652.0	2621.2	2577.8	2533.7	2474.5	2423.6	2411.9	2401.1
32.5°	2642.9	2593.7	2563.7	2517.0	2464.5	2412.8	2361.9	2338.6	2327.7	2329.4	2319.4
35°	2525.3	2482.0	2436.9	2366.9	2327.7	2276.0	2257.7	2252.7	2242.7	2231.9	2220.2
37.5°	2400.3	2349.4	2281.9	2240.2	2201.0	2180.2	2171.0	2163.5	2146.0	2126.8	2113.5
40°	2279.4	2187.7	2150.1	2109.3	2097.6	2088.5	2075.1	2056.8	2032.6	2029.3	2023.4
42.5°	2117.6	2051.8	2019.3	2010.9	1996.7	1980.9	1969.2	1949.2	1939.2	1945.9	1950.9
45°	1964.2	1930.9	1920.0	1910.0	1883.4	1860.8	1853.3	1846.7	1855.0	1891.7	1804.2
47.5°	1840.0	1826.7	1813.3	1796.7	1771.6	1755.0	1762.5	1769.1	1776.6	1507.4	1375.6
50°	1732.5	1714.1	1693.3	1674.9	1659.9	1658.3	1697.4	1579.9	1323.1	1316.4	1183.0
52.5°	1614.9	1587.4	1574.9	1564.0	1570.7	1595.7	1320.6	1225.6	1175.5	1021.3	952.9
55°	1488.2	1464.0	1464.0	1474.0	1438.2	1165.5	1151.4	995.5	901.2	874.6	863.7
57.5°	1361.5	1359.0	1373.1	1255.6	1058.0	1014.6	852.9	818.7	803.7	800.4	782.9
60°	1245.6	1268.9	1062.2	977.1	849.6	766.2	742.8	738.7	722.8	717.0	701.2
62.5°	1153.0	956.3	890.4	727.0	684.5	673.6	661.1	655.3	641.1	566.1	165.9
65°	832.9	787.0	638.6	611.1	607.8	591.9	586.9	527.7	124.2	83.4	70.9
67.5°	628.6	557.8	538.6	533.6	517.7	486.1	144.2	82.5	70.9	61.7	54.2
70°	482.7	470.2	456.0	444.4	130.9	81.7	70.9	60.0	51.7	45.9	41.7
72.5°	395.2	386.8	225.1	85.9	70.0	59.2	52.5	45.9	40.0	36.7	33.3
75°	309.3	85.9	70.9	59.2	50.9	43.4	38.4	34.2	30.8	28.3	25.8
77.5°	70.0	56.7	48.4	40.9	36.7	32.5	29.2	25.0	22.5	20.0	16.7
80°	43.4	37.5	31.7	29.2	25.0	20.8	18.3	16.7	13.3	12.5	10.8
82.5°	28.3	22.5	20.0	16.7	13.3	12.5	10.8	8.3	7.5	6.7	5.8
85°	12.5	10.8	9.2	7.5	5.8	5.0	4.2	3.3	3.3	3.3	3.3
87.5°	4.2	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	1.7	1.7
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: P#

CATALOG NUMBER: 2SNLED-LD5-43HL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	200°	205°	210°	215°	220°	225°	230°	235°	240°	245°	250°
0°	2777.9	2777.9	2777.9	2777.9	2777.9	2777.9	2777.9	2777.9	2777.9	2777.9	2777.9
2.5°	2807.9	2823.0	2837.1	2833.0	2818.0	2794.6	2787.9	2778.8	2785.4	2799.6	2805.4
5°	2828.0	2819.6	2849.6	2893.8	2965.5	2972.2	3022.2	3033.9	3073.9	3098.9	3098.1
7.5°	2856.3	2974.7	3023.9	3077.2	3101.4	3095.6	3103.1	3097.2	3088.1	3083.9	3078.9
10°	3000.5	3090.6	3108.9	3108.9	3071.4	3020.5	2998.9	2961.4	2886.3	2888.0	2875.5
12.5°	3084.7	3116.4	3073.1	3036.4	2885.5	2827.1	2763.8	2733.7	2716.2	2689.6	2699.6
15°	3040.6	2995.5	2969.7	2851.3	2758.8	2653.7	2655.4	2637.0	2617.9	2619.5	2607.0
17.5°	2975.5	2939.7	2756.3	2674.6	2629.5	2588.7	2581.2	2557.0	2544.5	2540.3	2539.5
20°	2886.3	2757.1	2620.4	2600.4	2546.2	2499.5	2492.0	2499.5	2537.8	2469.5	2237.7
22.5°	2782.1	2596.2	2556.2	2499.5	2462.8	2444.4	2490.3	2281.9	1966.7	2005.1	1964.2
25°	2605.4	2524.5	2456.1	2412.8	2408.6	2296.0	1913.4	1873.4	1670.8	1562.4	1440.7
27.5°	2476.1	2441.1	2369.4	2361.9	2307.7	1877.5	1678.3	1458.2	1377.3	1364.8	1338.1
30°	2397.8	2347.7	2304.4	2115.1	1841.7	1511.5	1346.4	1315.6	1301.4	1286.4	1263.1
32.5°	2303.6	2256.0	2276.9	1778.3	1468.2	1301.4	1268.1	1245.6	1219.7	1209.7	1125.5
35°	2207.7	2186.0	1779.1	1494.8	1262.2	1222.2	1197.2	1173.9	933.8	225.9	76.7
37.5°	2105.1	2100.1	1599.1	1240.6	1182.2	1144.7	1073.8	221.8	52.5	35.8	26.7
40°	2025.1	1599.9	1263.9	1163.0	1115.5	1056.3	148.4	36.7	23.3	14.2	9.2
42.5°	1971.7	1439.0	1131.4	1091.3	988.0	109.2	37.5	15.8	9.2	7.5	5.8
45°	1519.9	1136.4	1057.1	1015.5	125.1	37.5	21.7	7.5	5.8	5.0	3.3
47.5°	1402.3	1032.1	985.5	221.8	41.7	20.0	15.0	5.0	3.3	3.3	3.3
50°	1062.2	953.8	784.5	54.2	26.7	14.2	10.8	3.3	3.3	3.3	2.5
52.5°	931.3	880.4	84.2	35.8	20.8	10.8	6.7	2.5	2.5	2.5	2.5
55°	851.2	558.6	50.0	27.5	17.5	10.0	4.2	2.5	2.5	2.5	1.7
57.5°	778.7	75.0	36.7	23.3	15.8	9.2	2.5	2.5	2.5	2.5	1.7
60°	660.3	54.2	30.0	20.8	15.0	8.3	2.5	2.5	2.5	2.5	2.5
62.5°	85.9	42.5	25.8	18.3	10.8	6.7	1.7	2.5	2.5	2.5	2.5
65°	62.5	33.3	23.3	12.5	6.7	2.5	1.7	2.5	2.5	2.5	2.5
67.5°	48.4	27.5	17.5	10.8	5.8	1.7	1.7	2.5	2.5	2.5	2.5
70°	38.4	23.3	14.2	9.2	5.0	1.7	1.7	2.5	2.5	2.5	2.5
72.5°	30.0	16.7	10.0	5.0	3.3	1.7	1.7	2.5	2.5	2.5	2.5
75°	22.5	13.3	7.5	4.2	1.7	1.7	1.7	2.5	2.5	2.5	2.5
77.5°	15.0	8.3	5.8	3.3	3.3	3.3	4.2	4.2	2.5	2.5	2.5
80°	10.0	5.8	4.2	4.2	4.2	3.3	4.2	4.2	2.5	4.2	2.5
82.5°	5.0	4.2	4.2	3.3	3.3	2.5	3.3	3.3	3.3	3.3	2.5
85°	3.3	2.5	2.5	2.5	2.5	2.5	2.5	2.5	3.3	3.3	2.5
87.5°	1.7	1.7	1.7	1.7	2.5	2.5	2.5	2.5	3.3	3.3	2.5
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: 2SNLED-LD5-43HL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	255°	260°	265°	270°	275°	280°	285°	290°	295°	300°	305°
0°	2777.9	2777.9	2777.9	2777.9	2777.9	2777.9	2777.9	2777.9	2777.9	2777.9	2777.9
2.5°	2797.9	2800.4	2793.8	2829.6	2811.3	2813.0	2820.5	2801.3	2805.4	2792.1	2782.9
5°	3101.4	3106.4	3111.4	3113.1	3116.4	3120.6	3115.6	3113.1	3108.1	3091.4	3073.9
7.5°	3053.9	3048.1	3045.6	3048.9	3054.7	3057.2	3053.1	3058.9	3080.6	3089.7	3095.6
10°	2803.8	2777.1	2795.4	2792.9	2772.1	2842.1	2823.0	2833.8	2841.3	2918.0	2964.7
12.5°	2684.6	2701.2	2669.6	2653.7	2674.6	2688.7	2702.9	2672.9	2714.6	2695.4	2757.1
15°	2584.5	2574.5	2571.2	2572.0	2567.8	2587.8	2592.9	2599.5	2605.4	2631.2	2641.2
17.5°	2539.5	2556.2	2562.8	2567.8	2559.5	2550.3	2541.2	2527.8	2532.0	2525.3	2544.5
20°	2081.8	2025.9	2022.6	2055.1	2019.3	2039.3	2087.6	2411.1	2400.3	2526.2	2483.6
22.5°	1737.5	1684.9	1639.9	1600.7	1656.6	1679.9	1770.0	1871.7	2036.8	2010.9	2190.2
25°	1419.0	1399.8	1388.1	1382.3	1386.5	1384.8	1404.8	1452.3	1527.4	1704.1	1932.5
27.5°	1327.3	1318.1	1313.9	1300.6	1310.6	1307.3	1323.1	1333.1	1355.6	1373.1	1447.3
30°	1254.7	1243.9	1236.4	1222.2	1232.2	1233.1	1238.1	1263.9	1273.1	1288.1	1311.4
32.5°	458.5	270.1	253.4	240.9	263.5	343.5	602.8	1053.8	1202.2	1213.9	1240.6
35°	45.0	37.5	33.3	33.3	34.2	37.5	50.0	131.7	240.9	931.3	1165.5
37.5°	17.5	15.0	12.5	11.7	12.5	14.2	19.2	25.0	34.2	70.9	316.0
40°	7.5	6.7	5.8	5.8	5.8	5.8	6.7	8.3	12.5	23.3	36.7
42.5°	5.0	4.2	4.2	4.2	4.2	4.2	4.2	4.2	5.8	7.5	15.0
45°	3.3	2.5	2.5	2.5	2.5	2.5	2.5	2.5	3.3	4.2	6.7
47.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	3.3
50°	2.5	2.5	2.5	2.5	1.7	2.5	1.7	2.5	2.5	2.5	2.5
52.5°	2.5	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	2.5	2.5
55°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	2.5
57.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
60°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
62.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	2.5	2.5	1.7
65°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	2.5	1.7
67.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
70°	2.5	2.5	1.7	2.5	1.7	1.7	2.5	2.5	2.5	1.7	1.7
72.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	5.0	5.0	3.3
75°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	4.2	5.0	4.2
77.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	4.2	4.2	4.2
80°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	3.3	3.3	3.3
82.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	3.3	3.3	3.3
85°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
87.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
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: 2SNLED-LD5-43HL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	310°	315°	320°	325°	330°	335°	340°	341°	342°	343°	344°
0°	2777.9	2777.9	2777.9	2777.9	2777.9	2777.9	2777.9	2777.9	2777.9	2777.9	2777.9
2.5°	2767.1	2766.3	2783.8	2797.1	2792.1	2797.1	2802.9	2803.8	2805.4	2798.8	2796.3
5°	3040.6	3014.7	2964.7	2928.8	2887.2	2811.3	2773.8	2777.9	2778.8	2776.3	2779.6
7.5°	3093.1	3090.6	3073.1	3065.6	3037.2	2983.0	2896.3	2881.3	2844.6	2821.3	2802.1
10°	2961.4	3021.4	3037.2	3063.9	3080.6	3070.6	2997.2	2986.4	2963.0	2936.3	2942.2
12.5°	2818.8	2868.0	2870.5	3015.5	3048.1	3051.4	3023.0	3038.1	3041.4	2981.4	2946.3
15°	2643.7	2667.1	2716.2	2851.3	2949.7	3011.4	3029.7	3038.1	2997.2	2994.7	2980.5
17.5°	2567.0	2582.0	2604.5	2680.4	2829.6	2920.5	2998.0	2992.2	3008.0	2996.4	2960.5
20°	2470.3	2482.8	2522.8	2561.2	2634.5	2755.4	2900.5	2911.3	2932.2	2929.7	2939.7
22.5°	2468.6	2424.4	2431.1	2461.1	2537.8	2646.2	2800.4	2836.3	2849.6	2858.8	2869.6
25°	1958.4	2309.4	2373.6	2392.8	2442.8	2506.1	2687.9	2701.2	2726.2	2767.1	2797.1
27.5°	1696.6	1935.1	2191.8	2325.2	2356.9	2409.4	2517.8	2537.8	2622.9	2632.9	2679.6
30°	1338.9	1523.2	1906.7	2227.7	2280.2	2316.9	2393.6	2433.6	2470.3	2510.3	2559.5
32.5°	1259.7	1288.9	1501.5	1843.3	2251.9	2224.3	2281.0	2305.2	2345.2	2380.3	2416.1
35°	1187.2	1207.2	1252.2	1509.9	1834.2	2148.5	2186.8	2202.7	2225.2	2251.9	2277.7
37.5°	1111.3	1141.4	1172.2	1241.4	1696.6	2088.5	2087.6	2106.0	2119.3	2141.8	2163.5
40°	201.8	1048.0	1098.0	1143.0	1315.6	1665.8	1994.2	2002.6	2011.8	2025.9	2048.4
42.5°	32.5	175.1	1028.8	1072.2	1121.3	1491.5	1951.7	1917.5	1911.7	1921.7	1941.7
45°	16.7	42.5	206.8	1001.3	1045.5	1189.7	1595.7	1858.3	1852.5	1833.3	1837.5
47.5°	12.5	26.7	50.9	346.0	978.8	1021.3	1472.3	1456.5	1567.4	1780.0	1747.5
50°	10.8	18.3	30.0	70.9	864.6	940.4	1133.9	1324.8	1383.1	1390.6	1645.8
52.5°	10.0	12.5	21.7	45.9	181.7	869.6	922.1	988.8	1087.2	1298.1	1293.1
55°	9.2	11.7	18.3	30.8	63.4	783.7	837.9	850.4	871.2	972.1	1105.5
57.5°	5.0	10.8	17.5	26.7	47.5	143.4	760.3	770.4	787.0	791.2	838.7
60°	2.5	10.0	15.8	23.3	35.0	66.7	683.6	695.3	705.3	707.0	722.0
62.5°	1.7	9.2	13.3	21.7	29.2	47.5	161.7	330.2	627.8	627.8	645.3
65°	1.7	6.7	8.3	14.2	26.7	39.2	68.4	79.2	154.2	379.3	566.1
67.5°	1.7	2.5	7.5	11.7	20.0	30.0	50.0	58.4	70.0	80.0	148.4
70°	1.7	1.7	6.7	7.5	12.5	22.5	35.8	40.9	47.5	54.2	62.5
72.5°	1.7	1.7	5.8	5.8	8.3	15.0	27.5	30.0	34.2	38.4	44.2
75°	4.2	3.3	5.0	5.0	5.8	11.7	20.8	23.3	25.0	28.3	32.5
77.5°	4.2	4.2	4.2	4.2	4.2	7.5	13.3	15.0	17.5	19.2	22.5
80°	3.3	3.3	3.3	4.2	4.2	5.0	8.3	9.2	10.0	12.5	13.3
82.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	5.0	5.8	7.5
85°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	3.3	3.3	3.3	3.3
87.5°	2.5	2.5	2.5	1.7	1.7	2.5	2.5	2.5	2.5	2.5	2.5
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: 2SNLED-LD5-43HL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	345°	346°	347°	348°	349°	350°	351°	352°	353°	354°	355°
0°	2777.9	2777.9	2777.9	2777.9	2777.9	2777.9	2777.9	2777.9	2777.9	2777.9	2777.9
2.5°	2795.4	2790.4	2786.3	2788.8	2781.3	2777.9	2780.4	2781.3	2782.9	2787.1	2787.9
5°	2787.9	2786.3	2793.8	2797.9	2796.3	2797.9	2797.9	2794.6	2789.6	2792.9	2785.4
7.5°	2782.9	2772.1	2763.8	2765.4	2757.1	2767.1	2776.3	2789.6	2793.8	2793.8	2785.4
10°	2868.8	2857.1	2810.5	2778.8	2757.9	2739.6	2782.9	2738.8	2759.6	2680.4	2771.3
12.5°	2939.7	2955.5	2934.7	2848.0	2833.0	2777.9	2809.6	2755.4	2739.6	2648.7	2677.9
15°	2968.0	2938.0	2931.3	2907.2	2874.6	2858.8	2773.8	2764.6	2738.8	2748.8	2710.4
17.5°	2943.0	2958.0	2938.0	2922.2	2888.8	2851.3	2800.4	2755.4	2719.6	2639.5	2707.1
20°	2918.8	2938.8	2878.8	2888.8	2892.2	2848.8	2822.1	2784.6	2739.6	2664.6	2606.2
22.5°	2878.8	2864.6	2869.6	2854.6	2842.1	2848.0	2811.3	2785.4	2709.6	2675.4	2596.2
25°	2813.8	2808.8	2822.1	2820.5	2790.4	2780.4	2762.1	2734.6	2704.6	2649.5	2584.5
27.5°	2707.9	2733.7	2757.1	2767.9	2752.1	2725.4	2715.4	2699.6	2678.7	2622.9	2574.5
30°	2596.2	2625.4	2652.0	2675.4	2689.6	2677.9	2668.7	2659.5	2627.9	2591.2	2537.0
32.5°	2468.6	2507.0	2543.7	2572.0	2602.9	2612.0	2605.4	2597.9	2571.2	2537.8	2494.5
35°	2321.1	2373.6	2426.9	2477.8	2491.1	2512.8	2534.5	2522.0	2507.8	2474.5	2434.4
37.5°	2196.0	2233.5	2271.9	2336.1	2382.8	2410.3	2448.6	2453.6	2429.4	2413.6	2361.1
40°	2066.8	2101.0	2156.8	2194.3	2258.5	2290.2	2331.1	2349.4	2343.6	2334.4	2288.5
42.5°	1965.1	1981.7	2018.4	2051.8	2115.1	2180.2	2216.0	2236.0	2256.9	2249.4	2226.0
45°	1856.7	1871.7	1884.2	1913.4	1975.1	2032.6	2076.8	2106.8	2144.3	2161.8	2133.5
47.5°	1749.1	1753.3	1768.3	1792.5	1829.2	1873.4	1947.6	1992.6	2027.6	2061.8	2043.4
50°	1666.6	1651.6	1654.1	1669.1	1699.1	1742.5	1795.8	1859.2	1899.2	1940.9	1945.1
52.5°	1456.5	1578.2	1549.0	1557.4	1573.2	1594.1	1649.9	1712.4	1761.6	1797.5	1833.3
55°	1222.2	1246.4	1480.7	1447.3	1457.3	1475.7	1501.5	1564.0	1611.6	1661.6	1711.6
57.5°	947.9	1128.0	1137.2	1354.0	1348.9	1350.6	1372.3	1408.1	1455.7	1518.2	1560.7
60°	737.0	812.9	960.4	1035.5	1225.6	1232.2	1244.7	1265.6	1306.4	1365.6	1433.2
62.5°	650.3	660.3	712.8	825.4	948.8	1098.0	1124.7	1128.0	1146.4	1205.6	1283.9
65°	571.1	577.8	593.6	605.3	708.7	852.9	981.3	1002.1	1013.8	1048.8	1115.5
67.5°	393.5	497.7	511.9	520.2	530.2	596.9	756.2	862.1	875.4	906.2	964.6
70°	75.9	157.6	431.0	440.2	445.2	460.2	486.1	654.5	742.8	772.0	798.7
72.5°	51.7	60.9	73.4	173.4	366.8	375.2	381.0	402.7	551.9	637.0	651.1
75°	37.5	41.7	49.2	60.9	75.0	244.3	302.6	313.5	324.3	447.7	519.4
77.5°	26.7	30.0	33.3	39.2	45.9	59.2	85.0	234.3	245.1	250.9	354.3
80°	15.0	18.3	22.5	25.8	29.2	33.3	43.4	54.2	120.9	176.7	185.9
82.5°	8.3	10.0	11.7	14.2	15.8	20.0	24.2	29.2	38.4	56.7	120.1
85°	4.2	4.2	4.2	5.8	6.7	9.2	10.8	12.5	17.5	24.2	33.3
87.5°	2.5	2.5	3.3	3.3	3.3	4.2	4.2	4.2	5.0	7.5	10.8
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: 2SNLED-LD5-43HL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	356°	357°	358°	359°	360°
0°	2777.9	2777.9	2777.9	2777.9	2777.9
2.5°	2788.8	2786.3	2786.3	2796.3	2793.8
5°	2783.8	2781.3	2780.4	2791.3	2786.3
7.5°	2779.6	2770.4	2767.9	2777.9	2773.8
10°	2762.9	2756.3	2760.4	2757.1	2755.4
12.5°	2734.6	2730.4	2712.9	2714.6	2728.7
15°	2683.7	2700.4	2670.4	2697.1	2702.9
17.5°	2590.3	2627.9	2657.0	2672.9	2675.4
20°	2632.0	2644.5	2629.5	2630.4	2640.4
22.5°	2577.8	2583.7	2587.8	2582.8	2604.5
25°	2491.1	2468.6	2517.0	2527.0	2562.0
27.5°	2464.5	2446.1	2468.6	2467.0	2496.1
30°	2442.8	2383.6	2393.6	2409.4	2445.3
32.5°	2411.9	2318.6	2308.6	2343.6	2383.6
35°	2357.7	2269.4	2246.0	2268.5	2328.6
37.5°	2311.9	2201.0	2154.3	2184.3	2262.7
40°	2243.5	2147.6	2075.1	2101.8	2194.3
42.5°	2161.8	2101.8	1990.1	2008.4	2114.3
45°	2079.3	2025.9	1907.5	1916.7	2042.6
47.5°	1995.1	1945.9	1821.7	1823.3	1950.9
50°	1912.5	1847.5	1745.0	1715.8	1853.3
52.5°	1805.0	1745.0	1667.4	1619.9	1760.8
55°	1703.3	1635.7	1579.1	1505.7	1655.8
57.5°	1604.1	1529.0	1490.7	1396.5	1536.5
60°	1468.2	1432.3	1375.6	1285.6	1429.0
62.5°	1328.9	1317.3	1259.7	1166.4	1296.4
65°	1166.4	1193.9	1134.7	1054.6	1158.9
67.5°	1013.0	1062.2	997.1	947.9	1026.3
70°	849.6	906.2	869.6	852.1	885.4
72.5°	688.6	743.7	747.0	734.5	745.3
75°	531.9	592.8	626.1	606.9	609.4
77.5°	403.5	432.7	469.4	484.4	481.1
80°	249.3	300.1	330.2	361.0	350.2
82.5°	125.9	168.4	205.1	238.4	222.6
85°	52.5	67.5	94.2	124.2	119.2
87.5°	15.8	26.7	28.3	40.0	37.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)