

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-LD5-47SL-RM-UNV-L935-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-LD5-47SL-RM-UNV-L935-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
METALIC FINISH REFLECTOR
Light Source: -
Ballast/Driver: -

Summary

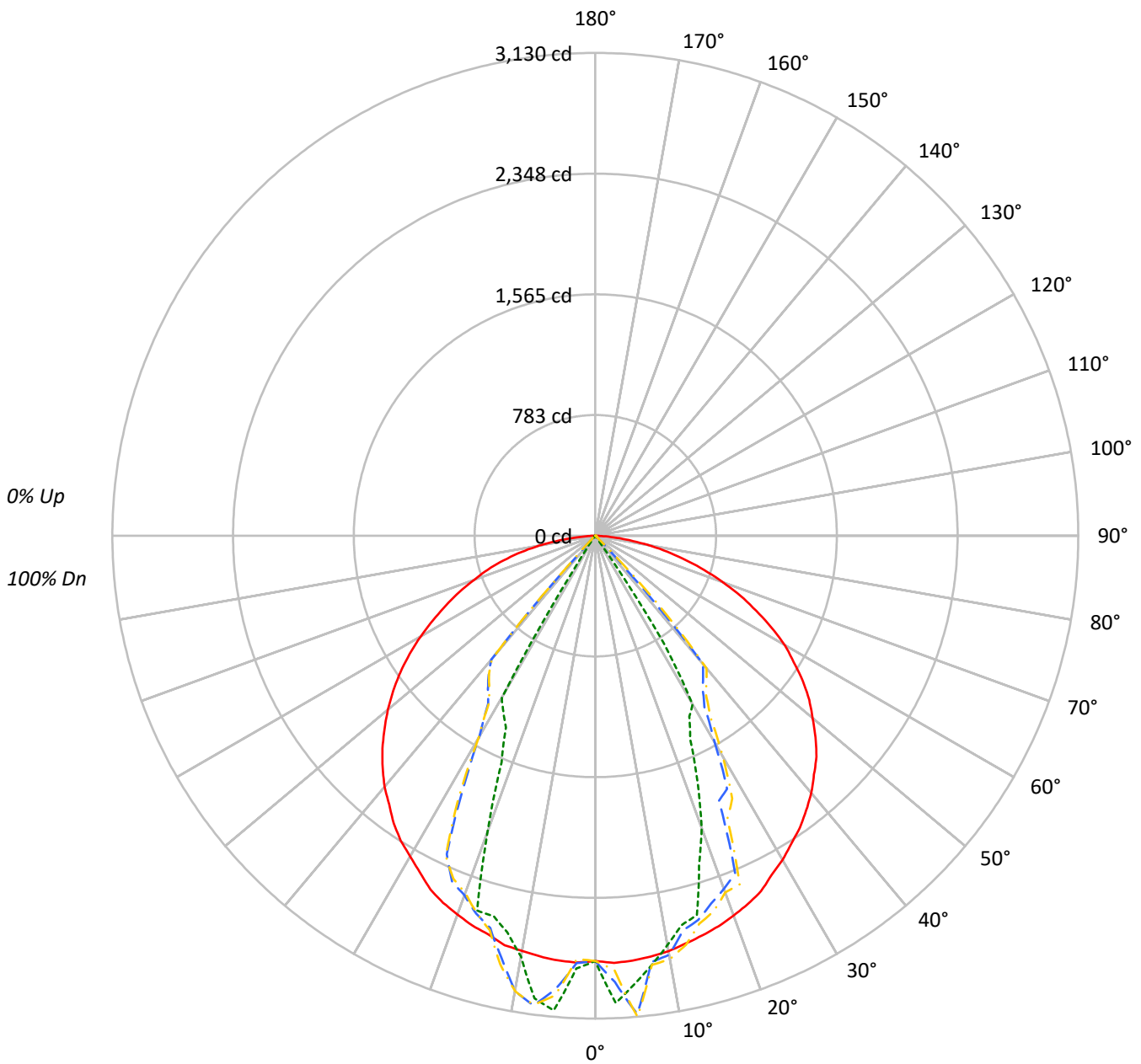
Lumens per Lamp: N/A
Luminaire Lumens: 3919.0 lumens
Efficiency: N/A
Efficacy: 112.0 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 0.81 / 0.97
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 35
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



TEST NUMBER: P#
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Luminous Intensity Polar Plot



— 0°-180° - - 45°-225° - - - 90°-270° - - - 135°-315°



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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°	22272	22272	22272	22272
5°	22363	22907	22357	24259
10°	22310	20728	22296	21326
15°	22249	19347	22194	19398
20°	22275	15239	22211	15427
25°	22339	11028	22230	10406
30°	22237	9674	22002	9300
35°	22303	213	21976	259
40°	22379	47	21844	47
45°	22459	27	21615	21
50°	22287	22	21264	22
55°	22156	16	20794	16
60°	21738	17	20038	17
65°	20605	26	19137	18
70°	19115	29	18197	29
75°	16908	33	17185	33
80°	13733	37	14520	37
85°	8082	44	8253	44



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	276.5	7.1
10°-20°	754.2	19.2
20°-30°	959.8	24.5
30°-40°	810.7	20.7
40°-50°	530.0	13.5
50°-60°	334.0	8.5
60°-70°	177.8	4.5
70°-80°	64.8	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°	1990.5	50.8
0°-40°	2801.2	71.5
0°-60°	3665.3	93.5
0°-90°	3919.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3919.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2756	2756	2756	2756	2756	
5°	2764	2917	2764	3089	2764	263
15°	2682	2545	2675	2552	2682	758
25°	2542	1453	2530	1371	2542	1169
35°	2310	27	2276	33	2310	1445
45°	2027	3	1950	2	2027	1559
55°	1643	2	1542	2	1643	1464
65°	1150	2	1068	2	1150	1139
75°	605	2	615	2	605	642
85°	118	2	121	2	118	150
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°	2756.1	2756.1	2756.1	2756.1	2756.1	2756.1	2756.1	2756.1	2756.1	2756.1	2756.1
2.5°	2771.9	2773.5	2774.3	2776.0	2778.5	2779.3	2780.9	2779.3	2779.3	2779.3	2779.3
5°	2764.4	2767.7	2770.2	2773.5	2779.3	2780.1	2786.7	2787.6	2790.9	2797.5	2802.5
7.5°	2752.0	2755.3	2760.3	2768.5	2776.8	2785.9	2797.5	2809.9	2827.3	2843.8	2864.5
10°	2733.8	2737.9	2743.7	2751.2	2791.7	2797.5	2823.1	2858.7	2868.6	2920.7	2959.6
12.5°	2707.3	2721.4	2736.3	2742.9	2781.8	2843.0	2929.0	2911.6	2892.6	3063.0	3060.5
15°	2681.7	2700.7	2693.3	2747.0	2782.6	2889.3	2852.9	2930.7	3072.9	3038.2	3039.9
17.5°	2654.4	2658.5	2699.9	2744.6	2808.2	2862.8	2907.5	3014.2	3042.3	3044.8	3014.2
20°	2619.7	2639.5	2699.9	2740.4	2847.9	2873.6	2970.4	3025.0	3013.4	2985.3	2933.1
22.5°	2584.1	2644.5	2705.7	2762.8	2838.0	2906.7	2954.7	2980.3	2919.9	2809.1	2749.5
25°	2541.9	2577.5	2657.7	2741.2	2835.5	2875.2	2903.4	2862.0	2783.4	2684.2	2584.1
27.5°	2476.6	2533.6	2636.2	2730.5	2815.7	2863.7	2818.2	2718.9	2592.4	2527.0	2481.5
30°	2426.1	2500.5	2584.9	2675.9	2764.4	2792.5	2676.7	2563.4	2476.6	2411.2	2401.3
32.5°	2364.9	2470.8	2551.0	2637.8	2712.3	2675.1	2562.6	2416.2	2344.2	2319.4	2329.3
35°	2310.3	2390.5	2495.6	2580.8	2634.5	2551.0	2373.2	2282.2	2247.4	2261.5	2243.3
37.5°	2244.9	2350.8	2447.6	2521.2	2503.0	2377.3	2226.7	2168.8	2173.0	2161.4	2126.7
40°	2177.1	2278.0	2378.9	2448.4	2384.7	2192.8	2092.7	2080.3	2082.8	2045.6	1996.0
42.5°	2097.7	2189.5	2290.4	2353.3	2216.0	2066.3	1998.4	2000.1	1978.6	1926.5	1900.0
45°	2026.6	2110.9	2216.0	2221.8	2053.0	1928.1	1908.3	1886.8	1838.8	1821.4	1801.6
47.5°	1935.6	2029.1	2115.9	2084.5	1893.4	1815.6	1800.8	1753.6	1729.6	1716.4	1699.8
50°	1838.8	1933.1	2012.5	1923.2	1742.8	1724.7	1675.8	1638.6	1622.1	1608.0	1593.1
52.5°	1747.0	1824.7	1905.8	1751.9	1627.0	1609.7	1554.3	1532.7	1516.2	1500.5	1497.2
55°	1642.8	1711.4	1766.8	1589.0	1516.2	1475.7	1436.0	1421.1	1405.4	1397.9	1410.3
57.5°	1524.5	1602.2	1594.0	1428.5	1396.3	1337.5	1322.6	1312.7	1301.1	1306.1	1202.7
60°	1417.8	1477.3	1436.8	1311.1	1256.5	1216.8	1203.5	1196.9	1203.5	1102.6	969.4
62.5°	1286.3	1353.3	1271.4	1173.8	1115.9	1096.8	1085.2	1094.3	997.6	886.7	854.5
65°	1149.8	1222.6	1101.8	1026.5	990.1	973.6	972.8	895.8	800.7	757.7	757.7
67.5°	1018.2	1093.5	938.0	875.1	861.1	862.7	814.8	698.1	671.7	642.7	559.2
70°	878.5	944.6	775.1	737.0	728.7	722.9	606.3	574.9	543.5	466.5	459.9
72.5°	739.5	771.8	622.9	613.8	612.1	508.7	485.5	431.8	395.4	386.3	382.2
75°	604.7	594.7	492.2	500.4	421.9	385.5	348.2	316.8	311.8	308.5	76.9
77.5°	477.3	427.6	387.9	337.5	301.9	256.4	249.0	244.0	160.5	57.9	47.1
80°	347.4	277.1	258.1	219.2	186.9	179.5	183.6	56.2	44.7	37.2	32.3
82.5°	220.9	177.0	144.8	126.6	123.2	53.8	39.7	32.3	28.1	24.0	19.9
85°	118.3	78.6	72.8	61.2	36.4	24.8	20.7	15.7	13.2	10.8	9.9
87.5°	37.2	31.4	25.6	20.7	12.4	8.3	6.6	5.8	5.0	4.1	4.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	11°	12°	13°	14°	15°	16°	17°	18°	19°	20°	25°
0°	2756.1	2756.1	2756.1	2756.1	2756.1	2756.1	2756.1	2756.1	2756.1	2756.1	2756.1
2.5°	2777.6	2779.3	2778.5	2780.9	2780.9	2784.3	2786.7	2789.2	2794.2	2796.7	2815.7
5°	2813.2	2817.3	2829.8	2841.3	2855.4	2859.5	2883.5	2889.3	2917.4	2920.7	3013.4
7.5°	2892.6	2908.3	2938.1	2967.9	2997.7	3016.7	3049.8	3070.5	3092.8	3112.6	3186.3
10°	2988.6	3015.0	3044.0	3073.8	3091.1	3127.5	3147.4	3150.7	3144.9	3112.6	2993.5
12.5°	3082.9	3109.3	3096.9	3102.7	3123.4	3058.9	3068.0	3021.7	3053.9	2894.3	2776.0
15°	3069.6	3068.0	3037.4	2938.1	2954.7	2831.4	2781.8	2743.7	2774.3	2757.8	2739.6
17.5°	3029.9	2954.7	2901.7	2782.6	2732.1	2697.4	2698.2	2699.1	2684.2	2699.9	2653.6
20°	2862.0	2777.6	2699.1	2656.9	2642.0	2617.2	2629.6	2617.2	2618.0	2623.0	2551.8
22.5°	2638.7	2613.0	2567.5	2580.8	2575.8	2598.1	2581.6	2556.0	2564.2	2527.0	2473.2
25°	2548.5	2518.7	2517.1	2522.0	2514.6	2504.7	2489.8	2450.9	2448.4	2436.8	2412.0
27.5°	2457.5	2459.2	2464.1	2449.3	2422.8	2402.9	2380.6	2361.6	2369.0	2355.8	2321.9
30°	2394.7	2393.8	2364.1	2350.8	2302.0	2302.8	2297.1	2285.5	2278.0	2278.9	2257.3
32.5°	2305.3	2279.7	2245.8	2229.2	2225.1	2210.2	2198.6	2201.1	2206.9	2186.2	2208.5
35°	2213.5	2160.6	2155.6	2141.5	2128.3	2118.4	2122.5	2106.0	2105.2	2102.7	1920.7
37.5°	2090.3	2064.6	2062.1	2047.2	2038.1	2035.7	2020.0	2022.4	2029.9	2043.1	1637.8
40°	1988.5	1965.4	1959.6	1958.7	1938.9	1937.2	1941.4	1957.1	1967.8	1885.1	1560.9
42.5°	1879.3	1881.0	1862.8	1851.2	1853.7	1861.1	1881.0	1826.4	1582.4	1507.9	1426.9
45°	1785.9	1777.6	1767.7	1764.4	1785.9	1771.0	1552.6	1432.7	1403.7	1400.4	1172.9
47.5°	1688.3	1685.8	1681.6	1684.1	1561.7	1392.1	1342.5	1326.8	1331.7	1328.4	1007.5
50°	1589.8	1593.1	1593.1	1391.3	1277.2	1249.0	1253.2	1267.2	1179.5	1101.0	938.8
52.5°	1504.6	1479.0	1267.2	1194.4	1168.8	1181.2	1151.4	1041.4	962.0	915.7	868.5
55°	1346.6	1158.0	1110.9	1099.3	1108.4	998.4	930.6	859.4	838.8	833.8	806.5
57.5°	1059.6	1021.6	1025.7	979.4	874.3	812.3	785.0	775.1	766.0	759.3	66.2
60°	937.2	947.9	867.7	768.4	726.3	718.0	711.4	702.3	700.6	689.0	42.2
62.5°	857.8	754.4	684.9	660.1	650.2	647.7	635.3	631.1	536.0	73.6	31.4
65°	646.8	604.7	591.4	585.6	574.9	574.9	477.3	75.3	61.2	52.9	28.1
67.5°	527.7	524.4	517.8	510.4	347.4	72.8	63.7	55.4	48.0	42.2	24.8
70°	446.7	445.0	405.3	74.4	62.0	54.6	48.0	43.0	39.7	35.6	22.3
72.5°	366.4	74.4	62.9	54.6	47.1	43.0	38.9	34.7	31.4	29.0	18.2
75°	57.1	50.5	44.7	40.5	37.2	33.1	29.8	27.3	26.5	23.2	12.4
77.5°	41.4	35.6	32.3	29.0	25.6	23.2	19.9	17.4	15.7	13.2	9.1
80°	29.0	25.6	23.2	19.0	16.5	14.1	12.4	10.8	9.9	8.3	4.1
82.5°	16.5	14.1	12.4	9.9	9.1	7.4	6.6	5.8	5.8	4.1	4.1
85°	7.4	7.4	5.8	5.0	4.1	4.1	4.1	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°	2756.1	2756.1	2756.1	2756.1	2756.1	2756.1	2756.1	2756.1	2756.1	2756.1	2756.1
2.5°	2842.2	2852.9	2873.6	2895.1	2871.1	2957.1	2950.5	2979.5	2995.2	3002.6	3020.0
5°	3095.3	3143.2	3159.0	3111.8	3084.5	3056.4	2992.7	2944.7	2950.5	2934.8	2877.7
7.5°	3090.3	2987.7	2849.6	2786.7	2781.8	2774.3	2794.2	2805.8	2807.4	2806.6	2804.9
10°	2828.9	2776.0	2766.9	2758.6	2761.9	2731.3	2717.3	2677.6	2699.1	2687.5	2691.6
12.5°	2749.5	2737.1	2688.3	2620.5	2661.0	2630.4	2613.0	2624.6	2611.4	2599.0	2594.8
15°	2702.4	2622.1	2594.8	2578.3	2566.7	2560.1	2565.9	2552.6	2548.5	2546.0	2551.8
17.5°	2604.8	2572.5	2542.7	2498.9	2499.7	2497.2	2513.8	2538.6	2540.2	2412.9	2297.9
20°	2527.8	2501.4	2463.3	2436.0	2473.2	2407.1	2151.5	2029.9	2010.9	2010.9	2014.2
22.5°	2466.6	2407.9	2410.4	2367.4	2019.1	1948.0	1949.6	1957.1	1923.2	1807.4	1795.0
25°	2383.1	2374.0	2192.8	1895.0	1897.5	1842.1	1756.9	1637.0	1507.1	1507.1	1485.6
27.5°	2320.2	2127.5	1862.8	1850.4	1664.3	1546.8	1474.0	1364.0	1349.1	1335.1	1336.7
30°	2266.4	1799.9	1806.5	1546.8	1409.5	1311.9	1306.1	1287.9	1278.8	1276.3	1267.2
32.5°	1791.7	1752.8	1512.1	1316.9	1263.1	1247.4	1239.9	1219.3	1218.4	1202.7	1093.5
35°	1680.0	1538.5	1265.6	1212.6	1196.9	1182.0	1169.6	785.0	92.6	37.2	32.3
37.5°	1552.6	1285.4	1170.4	1146.5	1131.6	836.3	83.5	29.0	20.7	14.9	13.2
40°	1316.0	1148.1	1111.7	1085.2	447.5	29.0	18.2	14.1	8.3	7.4	6.6
42.5°	1110.1	1081.9	1043.1	317.6	33.1	14.1	9.1	6.6	5.8	5.8	5.0
45°	1038.9	1014.1	420.2	31.4	20.7	6.6	5.8	5.8	5.0	3.3	3.3
47.5°	972.8	856.1	38.0	19.9	13.2	5.8	5.0	3.3	3.3	3.3	2.5
50°	902.4	47.1	26.5	14.9	8.3	3.3	3.3	3.3	3.3	2.5	2.5
52.5°	168.7	33.1	21.5	13.2	4.1	3.3	3.3	3.3	2.5	2.5	2.5
55°	39.7	26.5	19.9	11.6	3.3	3.3	3.3	2.5	2.5	2.5	1.7
57.5°	29.8	19.9	15.7	10.8	3.3	2.5	2.5	2.5	2.5	2.5	1.7
60°	24.8	14.1	12.4	9.9	2.5	2.5	2.5	2.5	2.5	2.5	1.7
62.5°	17.4	11.6	9.1	7.4	2.5	2.5	2.5	2.5	2.5	2.5	2.5
65°	14.1	9.1	7.4	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
67.5°	12.4	7.4	5.0	1.7	2.5	2.5	2.5	2.5	2.5	2.5	2.5
70°	9.9	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	4.1	1.7	1.7	2.5	2.5	3.3	3.3	2.5	2.5	2.5
77.5°	5.8	4.1	1.7	1.7	2.5	2.5	3.3	3.3	2.5	2.5	2.5
80°	3.3	4.1	1.7	2.5	2.5	5.0	5.8	3.3	2.5	2.5	2.5
82.5°	3.3	4.1	5.0	5.0	2.5	4.1	5.0	4.1	3.3	2.5	2.5
85°	3.3	2.5	3.3	4.1	2.5	4.1	4.1	3.3	3.3	2.5	2.5
87.5°	1.7	2.5	2.5	3.3	3.3	3.3	4.1	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: 4SNLED-LD5-47SL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	85°	90°	95°	100°	105°	110°	115°	120°	125°	130°	135°
0°	2756.1	2756.1	2756.1	2756.1	2756.1	2756.1	2756.1	2756.1	2756.1	2756.1	2756.1
2.5°	3028.3	3031.6	2979.5	2961.3	2977.0	2973.7	2959.6	2907.5	2901.7	2867.0	2816.5
5°	2894.3	2916.6	2889.3	2936.5	2914.1	2936.5	3004.3	3035.7	3087.0	3118.4	3130.0
7.5°	2800.8	2805.8	2805.8	2809.9	2814.0	2814.9	2809.9	2806.6	2792.5	2775.2	2806.6
10°	2687.5	2693.3	2703.2	2701.5	2700.7	2718.1	2722.2	2757.8	2756.1	2762.8	2786.7
12.5°	2628.7	2584.1	2624.6	2613.9	2628.7	2605.6	2648.6	2641.2	2643.6	2663.5	2714.8
15°	2531.1	2545.2	2555.1	2555.1	2560.9	2556.0	2551.0	2584.9	2605.6	2606.4	2603.1
17.5°	2343.4	2236.7	2345.9	2317.7	2541.9	2547.7	2528.7	2512.9	2512.9	2525.4	2551.8
20°	2011.7	2014.2	2015.0	2025.7	2039.0	2038.1	2039.0	2364.9	2519.6	2484.0	2460.0
22.5°	1763.5	1732.9	1790.0	1785.9	1857.0	1935.6	2010.9	2003.4	2008.4	2238.3	2445.1
25°	1413.6	1453.3	1421.1	1435.1	1515.4	1608.8	1666.7	1818.1	1982.7	1971.1	2024.9
27.5°	1330.9	1320.2	1335.1	1335.1	1345.8	1358.2	1390.5	1475.7	1622.1	1775.9	1921.5
30°	1252.3	1261.4	1263.1	1278.0	1286.3	1294.5	1299.5	1331.7	1364.8	1471.5	1651.0
32.5°	940.5	824.7	1085.2	1155.6	1215.1	1229.2	1239.1	1252.3	1276.3	1292.0	1382.2
35°	27.3	27.3	29.0	33.1	42.2	284.5	1083.6	1194.4	1210.2	1230.0	1246.5
37.5°	13.2	9.9	11.6	12.4	14.9	20.7	29.8	92.6	1031.5	1166.3	1184.5
40°	5.8	5.8	5.8	5.8	6.6	8.3	12.4	20.7	31.4	829.7	1119.2
42.5°	5.0	5.0	5.0	5.0	5.0	5.0	5.8	7.4	14.9	35.6	587.3
45°	3.3	3.3	2.5	3.3	3.3	4.1	5.0	5.0	6.6	22.3	40.5
47.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	4.1	5.0	14.9	21.5
50°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	11.6	14.9
52.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	5.0	13.2
55°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	2.5	2.5	3.3	11.6
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	9.9
62.5°	2.5	2.5	1.7	2.5	1.7	1.7	2.5	2.5	2.5	2.5	6.6
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	4.1	5.0	4.1	4.1	1.7
80°	2.5	2.5	2.5	2.5	2.5	2.5	4.1	4.1	4.1	4.1	5.8
82.5°	2.5	2.5	2.5	2.5	2.5	2.5	3.3	3.3	3.3	3.3	4.1
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: 4SNLED-LD5-47SL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	140°	145°	150°	155°	160°	161°	162°	163°	164°	165°	166°
0°	2756.1	2756.1	2756.1	2756.1	2756.1	2756.1	2756.1	2756.1	2756.1	2756.1	2756.1
2.5°	2820.7	2792.5	2783.4	2764.4	2762.8	2764.4	2760.3	2754.5	2757.8	2752.0	2747.0
5°	3136.6	3061.4	3012.6	2947.2	2857.0	2837.2	2832.2	2804.1	2794.2	2790.9	2777.6
7.5°	2881.0	3018.3	3101.1	3129.2	3023.3	2998.5	2969.5	2946.4	2924.0	2881.9	2856.2
10°	2767.7	2774.3	2853.7	2946.4	3096.9	3117.6	3133.3	3082.9	3068.8	2961.3	2938.1
12.5°	2741.2	2742.1	2751.2	2807.4	2925.7	2938.9	2994.4	3024.1	3060.5	3081.2	3064.7
15°	2620.5	2687.5	2737.1	2742.1	2752.8	2776.0	2792.5	2895.9	2939.8	3057.2	3050.6
17.5°	2564.2	2585.7	2657.7	2716.4	2706.5	2698.2	2711.5	2725.5	2767.7	2885.2	2883.5
20°	2470.8	2539.4	2578.3	2639.5	2694.9	2697.4	2682.5	2674.2	2657.7	2676.7	2694.1
22.5°	2431.1	2441.8	2514.6	2557.6	2620.5	2642.8	2646.1	2646.9	2637.8	2627.9	2623.0
25°	2426.9	2393.0	2430.2	2484.0	2530.3	2554.3	2581.6	2590.7	2587.4	2587.4	2582.4
27.5°	1986.0	2382.3	2362.4	2398.0	2454.2	2470.8	2484.8	2512.9	2530.3	2542.7	2548.5
30°	1891.7	1962.9	2309.5	2314.4	2371.5	2369.8	2385.6	2408.7	2431.1	2460.0	2467.5
32.5°	1673.4	1847.9	2114.2	2230.9	2290.4	2296.2	2304.5	2311.1	2331.8	2364.1	2392.2
35°	1340.8	1683.3	1811.5	2191.2	2201.9	2213.5	2218.5	2234.2	2240.8	2254.0	2278.9
37.5°	1213.5	1391.3	1737.9	1895.0	2100.2	2110.1	2136.6	2143.2	2154.0	2164.7	2183.7
40°	1139.8	1188.6	1446.7	1692.4	2018.3	2024.9	2034.0	2050.6	2051.4	2063.8	2081.2
42.5°	1081.1	1112.5	1187.8	1616.3	1960.4	1959.6	1938.1	1948.8	1953.8	1967.0	1991.0
45°	863.6	1043.9	1091.9	1320.2	1560.9	1673.4	1889.3	1853.7	1852.9	1857.8	1883.5
47.5°	43.8	981.9	1015.8	1089.4	1474.0	1478.2	1506.3	1742.8	1779.2	1767.7	1770.1
50°	29.8	67.8	946.3	980.2	1270.5	1373.1	1393.8	1404.5	1541.0	1693.2	1668.4
52.5°	23.2	38.9	579.8	909.9	1032.3	1107.6	1240.8	1316.9	1325.1	1386.3	1594.0
55°	20.7	29.8	62.9	839.6	877.6	894.2	971.9	1105.1	1212.6	1244.9	1247.4
57.5°	18.2	27.3	43.0	379.7	798.2	801.5	814.8	861.1	957.9	1046.4	1146.5
60°	16.5	24.0	33.9	65.3	725.4	733.7	736.2	748.6	760.2	820.6	935.5
62.5°	9.9	19.0	29.8	47.1	574.1	659.3	658.4	666.7	677.5	684.1	707.2
65°	8.3	14.9	25.6	39.7	70.3	87.7	532.7	592.3	598.9	608.0	612.1
67.5°	7.4	13.2	19.0	31.4	52.9	60.4	69.5	86.0	469.8	529.4	537.7
70°	6.6	9.1	15.7	26.5	43.0	46.3	52.1	59.6	70.3	86.9	425.2
72.5°	4.1	6.6	10.8	19.0	33.1	37.2	40.5	45.5	50.5	60.4	69.5
75°	1.7	5.0	9.1	14.1	25.6	28.1	30.6	33.9	38.0	44.7	49.6
77.5°	1.7	4.1	7.4	9.9	16.5	19.0	22.3	24.8	28.1	31.4	36.4
80°	5.8	3.3	5.0	7.4	11.6	12.4	14.1	15.7	18.2	20.7	24.0
82.5°	4.1	5.0	5.8	5.0	5.8	7.4	8.3	9.9	10.8	12.4	13.2
85°	3.3	3.3	4.1	4.1	4.1	4.1	4.1	4.1	5.0	5.8	7.4
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: 4SNLED-LD5-47SL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	167°	168°	169°	170°	171°	172°	173°	174°	175°	176°	177°
0°	2756.1	2756.1	2756.1	2756.1	2756.1	2756.1	2756.1	2756.1	2756.1	2756.1	2756.1
2.5°	2747.0	2745.4	2740.4	2740.4	2739.6	2742.9	2745.4	2747.9	2747.0	2752.0	2747.0
5°	2767.7	2763.6	2756.1	2749.5	2747.0	2748.7	2746.2	2748.7	2745.4	2749.5	2742.1
7.5°	2824.8	2810.7	2781.8	2770.2	2755.3	2754.5	2747.0	2745.4	2740.4	2740.4	2731.3
10°	2925.7	2857.9	2849.6	2814.9	2802.5	2742.1	2755.3	2733.0	2730.5	2719.7	2715.6
12.5°	3008.4	2955.5	2939.8	2909.2	2874.4	2752.0	2779.3	2731.3	2728.8	2707.3	2685.0
15°	3010.1	3040.7	2997.7	2913.3	2905.9	2821.5	2766.1	2749.5	2728.0	2663.5	2674.2
17.5°	2913.3	2983.6	3004.3	2986.1	2933.1	2876.1	2798.3	2765.2	2700.7	2671.8	2651.9
20°	2756.1	2827.3	2915.8	2921.6	2954.7	2914.1	2812.4	2758.6	2680.9	2630.4	2613.9
22.5°	2631.2	2683.3	2785.1	2832.2	2872.8	2886.8	2822.3	2742.9	2646.1	2597.3	2587.4
25°	2565.1	2576.6	2607.2	2662.7	2752.0	2816.5	2825.6	2741.2	2690.8	2584.1	2527.8
27.5°	2541.1	2531.1	2518.7	2546.9	2613.9	2692.4	2744.6	2758.6	2632.9	2531.1	2474.9
30°	2479.9	2485.6	2466.6	2456.7	2500.5	2581.6	2674.2	2697.4	2600.6	2495.6	2431.1
32.5°	2404.6	2414.5	2417.8	2400.5	2391.4	2447.6	2547.7	2603.1	2598.1	2445.1	2373.2
35°	2310.3	2338.4	2345.9	2346.7	2331.8	2322.7	2380.6	2495.6	2539.4	2422.0	2317.7
37.5°	2211.0	2219.3	2259.8	2270.6	2270.6	2243.3	2286.3	2378.1	2439.3	2369.8	2249.9
40°	2087.0	2113.4	2151.5	2170.5	2189.5	2192.0	2168.0	2232.5	2333.4	2316.1	2186.2
42.5°	1996.8	2014.2	2037.3	2063.0	2101.8	2111.8	2087.0	2098.5	2203.6	2249.1	2103.5
45°	1891.7	1914.9	1921.5	1949.6	1990.2	2019.1	2018.3	1994.3	2078.7	2134.9	2043.1
47.5°	1784.2	1806.5	1818.1	1832.2	1862.0	1899.2	1919.9	1909.1	1925.7	2035.7	1962.9
50°	1673.4	1685.8	1708.9	1724.7	1744.5	1766.0	1815.6	1825.6	1802.4	1890.1	1874.4
52.5°	1568.3	1572.5	1588.2	1603.9	1630.4	1646.1	1685.8	1715.6	1713.9	1739.5	1775.9
55°	1486.4	1468.2	1471.5	1483.9	1501.3	1525.3	1547.6	1594.0	1609.7	1614.6	1672.5
57.5°	1161.3	1348.3	1364.8	1364.0	1384.7	1395.4	1416.1	1446.7	1503.0	1490.6	1555.1
60°	1055.5	1076.1	1232.5	1250.7	1258.1	1268.1	1292.9	1321.0	1362.4	1388.8	1416.9
62.5°	804.8	930.6	977.7	1115.9	1137.4	1143.2	1159.7	1172.9	1215.9	1276.3	1264.7
65°	622.9	676.6	820.6	876.8	994.3	1009.1	1032.3	1046.4	1058.8	1128.3	1131.6
67.5°	538.5	546.8	585.6	694.0	768.4	883.4	897.5	909.9	928.9	978.5	1009.1
70°	459.9	469.8	480.6	489.7	586.5	662.6	769.3	773.4	785.8	818.9	888.4
72.5°	86.9	392.9	399.5	405.3	416.1	466.5	568.3	651.0	655.9	671.7	735.4
75°	58.7	68.7	94.3	324.3	335.0	338.3	355.7	459.1	535.2	538.5	566.6
77.5°	42.2	47.1	57.1	67.8	172.9	259.7	263.9	282.9	361.5	418.5	423.5
80°	29.0	32.3	38.0	43.0	52.9	69.5	191.9	197.7	207.6	286.2	301.1
82.5°	16.5	19.0	22.3	27.3	31.4	39.7	51.3	66.2	134.8	143.9	191.1
85°	8.3	9.1	10.8	13.2	15.7	19.0	25.6	31.4	43.0	77.8	80.2
87.5°	4.1	4.1	4.1	4.1	6.6	7.4	9.1	11.6	14.9	22.3	29.0
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-LD5-47SL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	178°	179°	180°	181°	182°	183°	184°	185°	186°	187°	188°
0°	2756.1	2756.1	2756.1	2756.1	2756.1	2756.1	2756.1	2756.1	2756.1	2756.1	2756.1
2.5°	2747.9	2759.4	2769.4	2771.9	2771.9	2773.5	2776.0	2777.6	2779.3	2780.9	2779.3
5°	2742.9	2755.3	2763.6	2766.1	2766.1	2771.0	2775.2	2780.1	2782.6	2782.6	2780.9
7.5°	2730.5	2739.6	2750.3	2757.0	2757.8	2766.1	2773.5	2772.7	2776.0	2777.6	2781.8
10°	2713.9	2713.9	2732.1	2737.1	2741.2	2750.3	2752.8	2757.8	2769.4	2771.0	2781.8
12.5°	2705.7	2697.4	2718.9	2721.4	2735.5	2723.9	2738.8	2743.7	2732.1	2747.9	2727.2
15°	2668.5	2678.4	2675.1	2682.5	2707.3	2694.1	2734.6	2721.4	2751.2	2715.6	2778.5
17.5°	2637.8	2636.2	2649.4	2656.0	2661.0	2689.1	2699.9	2714.8	2726.4	2716.4	2741.2
20°	2615.5	2602.3	2612.2	2619.7	2637.0	2658.5	2665.1	2642.8	2681.7	2747.9	2763.6
22.5°	2573.3	2564.2	2575.8	2575.8	2602.3	2599.0	2623.8	2609.7	2646.1	2723.0	2803.3
25°	2516.3	2517.1	2529.5	2544.4	2549.3	2586.6	2599.8	2618.0	2663.5	2755.3	2804.1
27.5°	2458.4	2453.4	2460.8	2491.4	2517.1	2544.4	2548.5	2610.6	2672.6	2735.5	2778.5
30°	2400.5	2395.5	2400.5	2422.8	2453.4	2471.6	2517.1	2599.8	2657.7	2700.7	2741.2
32.5°	2338.4	2333.4	2345.0	2361.6	2415.3	2417.8	2508.0	2585.7	2631.2	2662.7	2655.2
35°	2272.2	2265.6	2276.4	2302.0	2351.6	2369.8	2464.1	2522.0	2573.3	2588.2	2553.5
37.5°	2192.8	2181.3	2194.5	2230.1	2282.2	2335.1	2413.7	2480.7	2508.0	2468.3	2426.9
40°	2110.1	2101.8	2125.0	2143.2	2204.4	2278.0	2368.2	2415.3	2398.0	2352.5	2307.0
42.5°	2036.5	2019.1	2039.8	2074.5	2144.0	2227.6	2300.4	2326.8	2285.5	2218.5	2165.5
45°	1946.3	1925.7	1950.5	1996.8	2071.2	2166.4	2223.4	2214.3	2144.0	2086.1	2013.3
47.5°	1852.0	1827.2	1852.0	1907.5	1991.0	2091.9	2133.3	2091.9	2003.4	1930.6	1871.9
50°	1759.4	1730.4	1754.4	1838.0	1919.9	1997.6	1996.8	1916.6	1863.6	1784.2	1732.9
52.5°	1667.6	1626.2	1650.2	1741.2	1823.1	1911.6	1846.2	1771.8	1708.1	1638.6	1622.1
55°	1554.3	1509.6	1541.8	1674.2	1737.1	1789.2	1684.9	1619.6	1556.7	1522.0	1501.3
57.5°	1446.7	1397.9	1426.0	1582.4	1628.7	1641.9	1546.0	1453.3	1416.1	1404.5	1374.8
60°	1335.9	1280.5	1306.9	1487.3	1519.5	1465.7	1371.4	1299.5	1292.0	1268.9	1245.7
62.5°	1230.0	1168.8	1185.3	1369.0	1383.9	1286.3	1199.4	1180.4	1162.2	1139.0	1126.6
65°	1108.4	1044.7	1067.9	1243.2	1229.2	1103.4	1054.6	1050.5	1026.5	1007.5	1025.7
67.5°	996.7	921.5	953.7	1105.9	1042.2	939.7	919.8	909.9	890.9	901.6	710.5
70°	874.3	792.4	836.3	957.9	863.6	795.7	788.3	773.4	774.2	615.4	518.6
72.5°	737.8	666.7	730.4	795.7	683.2	663.4	652.6	651.0	525.3	426.8	402.8
75°	617.9	545.9	614.6	639.4	544.3	531.0	530.2	438.4	344.9	329.2	321.8
77.5°	482.2	426.8	492.2	454.9	417.7	402.8	361.5	271.3	259.7	249.0	93.5
80°	325.1	329.2	367.3	313.5	297.8	253.9	200.2	191.9	165.4	66.2	52.1
82.5°	197.7	248.2	234.1	196.0	191.9	138.1	126.6	64.5	48.0	38.0	33.1
85°	102.6	125.7	120.8	106.7	79.4	71.1	39.7	30.6	24.8	19.0	15.7
87.5°	34.7	46.3	44.7	35.6	27.3	21.5	14.1	11.6	8.3	6.6	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: 4SNLED-LD5-47SL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	189°	190°	191°	192°	193°	194°	195°	196°	197°	198°	199°
0°	2756.1	2756.1	2756.1	2756.1	2756.1	2756.1	2756.1	2756.1	2756.1	2756.1	2756.1
2.5°	2777.6	2777.6	2776.0	2777.6	2778.5	2776.8	2776.8	2778.5	2779.3	2780.1	2784.3
5°	2781.8	2783.4	2785.9	2790.9	2791.7	2801.6	2805.8	2808.2	2810.7	2811.6	2805.8
7.5°	2790.9	2796.7	2801.6	2800.8	2795.0	2779.3	2774.3	2770.2	2777.6	2796.7	2819.0
10°	2799.1	2772.7	2723.0	2790.9	2770.2	2789.2	2845.5	2857.9	2895.9	2949.7	2965.4
12.5°	2742.1	2814.9	2830.6	2754.5	2895.1	2843.0	2905.0	2959.6	2975.3	3029.9	2996.8
15°	2803.3	2838.9	2862.8	2938.9	2930.7	2975.3	2992.7	2982.0	2984.4	2998.5	3035.7
17.5°	2802.5	2873.6	2889.3	2940.6	2975.3	2976.2	2971.2	2966.2	2979.5	2990.2	2967.9
20°	2850.4	2873.6	2904.2	2924.9	2931.5	2939.8	2955.5	2943.1	2918.3	2894.3	2884.3
22.5°	2826.4	2878.6	2905.0	2908.3	2904.2	2878.6	2855.4	2820.7	2809.1	2796.7	2800.8
25°	2831.4	2855.4	2852.1	2838.9	2821.5	2773.5	2761.9	2747.0	2724.7	2670.9	2622.1
27.5°	2795.8	2783.4	2768.5	2736.3	2704.8	2679.2	2650.3	2602.3	2562.6	2504.7	2483.2
30°	2736.3	2686.7	2650.3	2631.2	2600.6	2557.6	2513.8	2455.0	2404.6	2393.0	2382.3
32.5°	2622.1	2573.3	2543.6	2497.2	2445.1	2393.8	2343.4	2320.2	2309.5	2311.1	2301.2
35°	2505.5	2462.5	2417.8	2348.3	2309.5	2258.2	2240.0	2235.0	2225.1	2214.3	2202.8
37.5°	2381.4	2331.0	2264.0	2222.6	2183.7	2163.1	2154.0	2146.5	2129.1	2110.1	2096.9
40°	2261.5	2170.5	2133.3	2092.7	2081.2	2072.1	2058.8	2040.6	2016.6	2013.3	2007.5
42.5°	2101.0	2035.7	2003.4	1995.1	1981.1	1965.4	1953.8	1933.9	1924.0	1930.6	1935.6
45°	1948.8	1915.7	1905.0	1895.0	1868.6	1846.2	1838.8	1832.2	1840.5	1876.9	1790.0
47.5°	1825.6	1812.3	1799.1	1782.6	1757.7	1741.2	1748.6	1755.3	1762.7	1495.5	1364.8
50°	1718.9	1700.7	1680.0	1661.8	1646.9	1645.2	1684.1	1567.5	1312.7	1306.1	1173.8
52.5°	1602.2	1574.9	1562.5	1551.8	1558.4	1583.2	1310.2	1215.9	1166.3	1013.3	945.5
55°	1476.5	1452.5	1452.5	1462.4	1426.9	1156.4	1142.3	987.6	894.2	867.7	856.9
57.5°	1350.8	1348.3	1362.4	1245.7	1049.7	1006.7	846.2	812.3	797.4	794.1	776.7
60°	1235.8	1259.0	1053.8	969.4	842.9	760.2	737.0	732.9	717.2	711.4	695.7
62.5°	1144.0	948.8	883.4	721.3	679.1	668.4	655.9	650.2	636.1	561.6	164.6
65°	826.3	780.8	633.6	606.3	603.0	587.3	582.3	523.6	123.2	82.7	70.3
67.5°	623.7	553.4	534.4	529.4	513.7	482.2	143.1	81.9	70.3	61.2	53.8
70°	478.9	466.5	452.5	440.9	129.9	81.1	70.3	59.6	51.3	45.5	41.4
72.5°	392.1	383.8	223.3	85.2	69.5	58.7	52.1	45.5	39.7	36.4	33.1
75°	306.9	85.2	70.3	58.7	50.5	43.0	38.0	33.9	30.6	28.1	25.6
77.5°	69.5	56.2	48.0	40.5	36.4	32.3	29.0	24.8	22.3	19.9	16.5
80°	43.0	37.2	31.4	29.0	24.8	20.7	18.2	16.5	13.2	12.4	10.8
82.5°	28.1	22.3	19.9	16.5	13.2	12.4	10.8	8.3	7.4	6.6	5.8
85°	12.4	10.8	9.1	7.4	5.8	5.0	4.1	3.3	3.3	3.3	3.3
87.5°	4.1	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: 4SNLED-LD5-47SL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	200°	205°	210°	215°	220°	225°	230°	235°	240°	245°	250°
0°	2756.1	2756.1	2756.1	2756.1	2756.1	2756.1	2756.1	2756.1	2756.1	2756.1	2756.1
2.5°	2785.9	2800.8	2814.9	2810.7	2795.8	2772.7	2766.1	2757.0	2763.6	2777.6	2783.4
5°	2805.8	2797.5	2827.3	2871.1	2942.2	2948.9	2998.5	3010.1	3049.8	3074.6	3073.8
7.5°	2833.9	2951.3	3000.1	3053.1	3077.1	3071.3	3078.7	3072.9	3063.8	3059.7	3054.7
10°	2977.0	3066.3	3084.5	3084.5	3047.3	2996.8	2975.3	2938.1	2863.7	2865.3	2852.9
12.5°	3060.5	3092.0	3049.0	3012.6	2862.8	2804.9	2742.1	2712.3	2694.9	2668.5	2678.4
15°	3016.7	2972.0	2946.4	2828.9	2737.1	2632.9	2634.5	2616.3	2597.3	2599.0	2586.6
17.5°	2952.2	2916.6	2734.6	2653.6	2608.9	2568.4	2560.9	2536.9	2524.5	2520.4	2519.6
20°	2863.7	2735.5	2599.8	2579.9	2526.2	2479.9	2472.4	2479.9	2517.9	2450.1	2220.1
22.5°	2760.3	2575.8	2536.1	2479.9	2443.5	2425.3	2470.8	2264.0	1951.3	1989.3	1948.8
25°	2584.9	2504.7	2436.8	2393.8	2389.7	2278.0	1898.4	1858.7	1657.7	1550.1	1429.4
27.5°	2456.7	2422.0	2350.8	2343.4	2289.6	1862.8	1665.1	1446.7	1366.5	1354.1	1327.6
30°	2378.9	2329.3	2286.3	2098.5	1827.2	1499.7	1335.9	1305.3	1291.2	1276.3	1253.2
32.5°	2285.5	2238.3	2259.0	1764.4	1456.6	1291.2	1258.1	1235.8	1210.2	1200.2	1116.7
35°	2190.3	2168.8	1765.2	1483.1	1252.3	1212.6	1187.8	1164.7	926.4	224.2	76.1
37.5°	2088.6	2083.6	1586.5	1230.8	1172.9	1135.7	1065.4	220.0	52.1	35.6	26.5
40°	2009.2	1587.3	1254.0	1153.9	1106.8	1048.0	147.2	36.4	23.2	14.1	9.1
42.5°	1956.3	1427.7	1122.5	1082.8	980.2	108.4	37.2	15.7	9.1	7.4	5.8
45°	1507.9	1127.4	1048.9	1007.5	124.1	37.2	21.5	7.4	5.8	5.0	3.3
47.5°	1391.3	1024.0	977.7	220.0	41.4	19.9	14.9	5.0	3.3	3.3	3.3
50°	1053.8	946.3	778.4	53.8	26.5	14.1	10.8	3.3	3.3	3.3	2.5
52.5°	924.0	873.5	83.5	35.6	20.7	10.8	6.6	2.5	2.5	2.5	2.5
55°	844.5	554.2	49.6	27.3	17.4	9.9	4.1	2.5	2.5	2.5	1.7
57.5°	772.6	74.4	36.4	23.2	15.7	9.1	2.5	2.5	2.5	2.5	1.7
60°	655.1	53.8	29.8	20.7	14.9	8.3	2.5	2.5	2.5	2.5	2.5
62.5°	85.2	42.2	25.6	18.2	10.8	6.6	1.7	2.5	2.5	2.5	2.5
65°	62.0	33.1	23.2	12.4	6.6	2.5	1.7	2.5	2.5	2.5	2.5
67.5°	48.0	27.3	17.4	10.8	5.8	1.7	1.7	2.5	2.5	2.5	2.5
70°	38.0	23.2	14.1	9.1	5.0	1.7	1.7	2.5	2.5	2.5	2.5
72.5°	29.8	16.5	9.9	5.0	3.3	1.7	1.7	2.5	2.5	2.5	2.5
75°	22.3	13.2	7.4	4.1	1.7	1.7	1.7	2.5	2.5	2.5	2.5
77.5°	14.9	8.3	5.8	3.3	3.3	3.3	4.1	4.1	2.5	2.5	2.5
80°	9.9	5.8	4.1	4.1	4.1	3.3	4.1	4.1	2.5	4.1	2.5
82.5°	5.0	4.1	4.1	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: 4SNLED-LD5-47SL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	255°	260°	265°	270°	275°	280°	285°	290°	295°	300°	305°
0°	2756.1	2756.1	2756.1	2756.1	2756.1	2756.1	2756.1	2756.1	2756.1	2756.1	2756.1
2.5°	2776.0	2778.5	2771.9	2807.4	2789.2	2790.9	2798.3	2779.3	2783.4	2770.2	2761.1
5°	3077.1	3082.0	3087.0	3088.7	3092.0	3096.1	3091.1	3088.7	3083.7	3067.2	3049.8
7.5°	3029.9	3024.1	3021.7	3025.0	3030.8	3033.2	3029.1	3034.9	3056.4	3065.5	3071.3
10°	2781.8	2755.3	2773.5	2771.0	2750.3	2819.8	2800.8	2811.6	2819.0	2895.1	2941.4
12.5°	2663.5	2680.0	2648.6	2632.9	2653.6	2667.6	2681.7	2651.9	2693.3	2674.2	2735.5
15°	2564.2	2554.3	2551.0	2551.8	2547.7	2567.5	2572.5	2579.1	2584.9	2610.6	2620.5
17.5°	2519.6	2536.1	2542.7	2547.7	2539.4	2530.3	2521.2	2508.0	2512.1	2505.5	2524.5
20°	2065.4	2010.0	2006.7	2039.0	2003.4	2023.3	2071.2	2392.2	2381.4	2506.3	2464.1
22.5°	1723.8	1671.7	1627.0	1588.2	1643.6	1666.7	1756.1	1857.0	2020.8	1995.1	2173.0
25°	1407.8	1388.8	1377.2	1371.4	1375.6	1373.9	1393.8	1440.9	1515.4	1690.7	1917.4
27.5°	1316.9	1307.8	1303.6	1290.4	1300.3	1297.0	1312.7	1322.6	1345.0	1362.4	1436.0
30°	1244.9	1234.1	1226.7	1212.6	1222.6	1223.4	1228.3	1254.0	1263.1	1278.0	1301.1
32.5°	454.9	268.0	251.5	239.1	261.4	340.8	598.0	1045.5	1192.8	1204.4	1230.8
35°	44.7	37.2	33.1	33.1	33.9	37.2	49.6	130.7	239.1	924.0	1156.4
37.5°	17.4	14.9	12.4	11.6	12.4	14.1	19.0	24.8	33.9	70.3	313.5
40°	7.4	6.6	5.8	5.8	5.8	5.8	6.6	8.3	12.4	23.2	36.4
42.5°	5.0	4.1	4.1	4.1	4.1	4.1	4.1	4.1	5.8	7.4	14.9
45°	3.3	2.5	2.5	2.5	2.5	2.5	2.5	2.5	3.3	4.1	6.6
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	4.1	5.0	4.1
77.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	4.1	4.1	4.1
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: 4SNLED-LD5-47SL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	310°	315°	320°	325°	330°	335°	340°	341°	342°	343°	344°
0°	2756.1	2756.1	2756.1	2756.1	2756.1	2756.1	2756.1	2756.1	2756.1	2756.1	2756.1
2.5°	2745.4	2744.6	2761.9	2775.2	2770.2	2775.2	2780.9	2781.8	2783.4	2776.8	2774.3
5°	3016.7	2991.1	2941.4	2905.9	2864.5	2789.2	2752.0	2756.1	2757.0	2754.5	2757.8
7.5°	3068.8	3066.3	3049.0	3041.5	3013.4	2959.6	2873.6	2858.7	2822.3	2799.1	2780.1
10°	2938.1	2997.7	3013.4	3039.9	3056.4	3046.5	2973.7	2962.9	2939.8	2913.3	2919.1
12.5°	2796.7	2845.5	2847.9	2991.9	3024.1	3027.4	2999.3	3014.2	3017.5	2958.0	2923.2
15°	2623.0	2646.1	2694.9	2828.9	2926.5	2987.7	3005.9	3014.2	2973.7	2971.2	2957.1
17.5°	2546.9	2561.7	2584.1	2659.4	2807.4	2897.6	2974.5	2968.7	2984.4	2972.9	2937.3
20°	2450.9	2463.3	2503.0	2541.1	2613.9	2733.8	2877.7	2888.5	2909.2	2906.7	2916.6
22.5°	2449.3	2405.4	2412.0	2441.8	2517.9	2625.4	2778.5	2814.0	2827.3	2836.4	2847.1
25°	1943.0	2291.3	2355.0	2374.0	2423.6	2486.5	2666.8	2680.0	2704.8	2745.4	2775.2
27.5°	1683.3	1919.9	2174.6	2307.0	2338.4	2390.5	2498.1	2517.9	2602.3	2612.2	2658.5
30°	1328.4	1511.2	1891.7	2210.2	2262.3	2298.7	2374.8	2414.5	2450.9	2490.6	2539.4
32.5°	1249.9	1278.8	1489.7	1828.9	2234.2	2206.9	2263.1	2287.1	2326.8	2361.6	2397.1
35°	1177.9	1197.7	1242.4	1498.0	1819.8	2131.6	2169.7	2185.4	2207.7	2234.2	2259.8
37.5°	1102.6	1132.4	1163.0	1231.7	1683.3	2072.1	2071.2	2089.4	2102.7	2125.0	2146.5
40°	200.2	1039.8	1089.4	1134.1	1305.3	1652.7	1978.6	1986.9	1996.0	2010.0	2032.4
42.5°	32.3	173.7	1020.7	1063.7	1112.5	1479.8	1936.4	1902.5	1896.7	1906.6	1926.5
45°	16.5	42.2	205.1	993.4	1037.3	1180.4	1583.2	1843.8	1838.0	1818.9	1823.1
47.5°	12.4	26.5	50.5	343.3	971.1	1013.3	1460.8	1445.1	1555.1	1766.0	1733.8
50°	10.8	18.2	29.8	70.3	857.8	933.0	1125.0	1314.4	1372.3	1379.7	1632.8
52.5°	9.9	12.4	21.5	45.5	180.3	862.7	914.9	981.0	1078.6	1287.9	1282.9
55°	9.1	11.6	18.2	30.6	62.9	777.5	831.3	843.7	864.4	964.5	1096.8
57.5°	5.0	10.8	17.4	26.5	47.1	142.3	754.4	764.3	780.8	785.0	832.1
60°	2.5	9.9	15.7	23.2	34.7	66.2	678.3	689.9	699.8	701.4	716.3
62.5°	1.7	9.1	13.2	21.5	29.0	47.1	160.5	327.6	622.9	622.9	640.2
65°	1.7	6.6	8.3	14.1	26.5	38.9	67.8	78.6	153.0	376.4	561.6
67.5°	1.7	2.5	7.4	11.6	19.9	29.8	49.6	57.9	69.5	79.4	147.2
70°	1.7	1.7	6.6	7.4	12.4	22.3	35.6	40.5	47.1	53.8	62.0
72.5°	1.7	1.7	5.8	5.8	8.3	14.9	27.3	29.8	33.9	38.0	43.8
75°	4.1	3.3	5.0	5.0	5.8	11.6	20.7	23.2	24.8	28.1	32.3
77.5°	4.1	4.1	4.1	4.1	4.1	7.4	13.2	14.9	17.4	19.0	22.3
80°	3.3	3.3	3.3	4.1	4.1	5.0	8.3	9.1	9.9	12.4	13.2
82.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	5.0	5.8	7.4
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: 4SNLED-LD5-47SL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	345°	346°	347°	348°	349°	350°	351°	352°	353°	354°	355°
0°	2756.1	2756.1	2756.1	2756.1	2756.1	2756.1	2756.1	2756.1	2756.1	2756.1	2756.1
2.5°	2773.5	2768.5	2764.4	2766.9	2759.4	2756.1	2758.6	2759.4	2761.1	2765.2	2766.1
5°	2766.1	2764.4	2771.9	2776.0	2774.3	2776.0	2776.0	2772.7	2767.7	2771.0	2763.6
7.5°	2761.1	2750.3	2742.1	2743.7	2735.5	2745.4	2754.5	2767.7	2771.9	2771.9	2763.6
10°	2846.3	2834.7	2788.4	2757.0	2736.3	2718.1	2761.1	2717.3	2737.9	2659.4	2749.5
12.5°	2916.6	2932.3	2911.6	2825.6	2810.7	2756.1	2787.6	2733.8	2718.1	2627.9	2656.9
15°	2944.7	2915.0	2908.3	2884.3	2852.1	2836.4	2752.0	2742.9	2717.3	2727.2	2689.1
17.5°	2919.9	2934.8	2915.0	2899.2	2866.1	2828.9	2778.5	2733.8	2698.2	2618.8	2685.8
20°	2895.9	2915.8	2856.2	2866.1	2869.5	2826.4	2800.0	2762.8	2718.1	2643.6	2585.7
22.5°	2856.2	2842.2	2847.1	2832.2	2819.8	2825.6	2789.2	2763.6	2688.3	2654.4	2575.8
25°	2791.7	2786.7	2800.0	2798.3	2768.5	2758.6	2740.4	2713.1	2683.3	2628.7	2564.2
27.5°	2686.7	2712.3	2735.5	2746.2	2730.5	2704.0	2694.1	2678.4	2657.7	2602.3	2554.3
30°	2575.8	2604.8	2631.2	2654.4	2668.5	2656.9	2647.8	2638.7	2607.2	2570.8	2517.1
32.5°	2449.3	2487.3	2523.7	2551.8	2582.4	2591.5	2584.9	2577.5	2551.0	2517.9	2474.9
35°	2302.8	2355.0	2407.9	2458.4	2471.6	2493.1	2514.6	2502.2	2488.1	2455.0	2415.3
37.5°	2178.8	2216.0	2254.0	2317.7	2364.1	2391.4	2429.4	2434.4	2410.4	2394.7	2342.5
40°	2050.6	2084.5	2139.9	2177.1	2240.8	2272.2	2312.8	2331.0	2325.2	2316.1	2270.6
42.5°	1949.6	1966.2	2002.6	2035.7	2098.5	2163.1	2198.6	2218.5	2239.2	2231.7	2208.5
45°	1842.1	1857.0	1869.4	1898.4	1959.6	2016.6	2060.5	2090.3	2127.5	2144.9	2116.7
47.5°	1735.4	1739.5	1754.4	1778.4	1814.8	1858.7	1932.3	1976.9	2011.7	2045.6	2027.4
50°	1653.5	1638.6	1641.1	1656.0	1685.8	1728.8	1781.7	1844.6	1884.3	1925.7	1929.8
52.5°	1445.1	1565.8	1536.9	1545.2	1560.9	1581.6	1637.0	1699.0	1747.8	1783.4	1818.9
55°	1212.6	1236.6	1469.1	1436.0	1445.9	1464.1	1489.7	1551.8	1598.9	1648.6	1698.2
57.5°	940.5	1119.2	1128.3	1343.3	1338.4	1340.0	1361.5	1397.1	1444.2	1506.3	1548.5
60°	731.2	806.5	952.9	1027.3	1215.9	1222.6	1235.0	1255.6	1296.2	1354.9	1421.9
62.5°	645.2	655.1	707.2	818.9	941.3	1089.4	1115.9	1119.2	1137.4	1196.1	1273.8
65°	566.6	573.2	588.9	600.5	703.1	846.2	973.6	994.3	1005.8	1040.6	1106.8
67.5°	390.4	493.8	507.9	516.2	526.1	592.3	750.2	855.3	868.5	899.1	957.0
70°	75.3	156.3	427.6	436.7	441.7	456.6	482.2	649.3	737.0	766.0	792.4
72.5°	51.3	60.4	72.8	172.1	364.0	372.2	378.0	399.5	547.6	632.0	646.0
75°	37.2	41.4	48.8	60.4	74.4	242.4	300.3	311.0	321.8	444.2	515.3
77.5°	26.5	29.8	33.1	38.9	45.5	58.7	84.4	232.4	243.2	249.0	351.5
80°	14.9	18.2	22.3	25.6	29.0	33.1	43.0	53.8	119.9	175.4	184.5
82.5°	8.3	9.9	11.6	14.1	15.7	19.9	24.0	29.0	38.0	56.2	119.1
85°	4.1	4.1	4.1	5.8	6.6	9.1	10.8	12.4	17.4	24.0	33.1
87.5°	2.5	2.5	3.3	3.3	3.3	4.1	4.1	4.1	5.0	7.4	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: 4SNLED-LD5-47SL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	356°	357°	358°	359°	360°
0°	2756.1	2756.1	2756.1	2756.1	2756.1
2.5°	2766.9	2764.4	2764.4	2774.3	2771.9
5°	2761.9	2759.4	2758.6	2769.4	2764.4
7.5°	2757.8	2748.7	2746.2	2756.1	2752.0
10°	2741.2	2734.6	2738.8	2735.5	2733.8
12.5°	2713.1	2709.0	2691.6	2693.3	2707.3
15°	2662.7	2679.2	2649.4	2675.9	2681.7
17.5°	2570.0	2607.2	2636.2	2651.9	2654.4
20°	2611.4	2623.8	2608.9	2609.7	2619.7
22.5°	2557.6	2563.4	2567.5	2562.6	2584.1
25°	2471.6	2449.3	2497.2	2507.2	2541.9
27.5°	2445.1	2426.9	2449.3	2447.6	2476.6
30°	2423.6	2364.9	2374.8	2390.5	2426.1
32.5°	2393.0	2300.4	2290.4	2325.2	2364.9
35°	2339.2	2251.6	2228.4	2250.7	2310.3
37.5°	2293.7	2183.7	2137.4	2167.2	2244.9
40°	2225.9	2130.8	2058.8	2085.3	2177.1
42.5°	2144.9	2085.3	1974.5	1992.7	2097.7
45°	2063.0	2010.0	1892.6	1901.7	2026.6
47.5°	1979.4	1930.6	1807.4	1809.0	1935.6
50°	1897.5	1833.0	1731.3	1702.3	1838.8
52.5°	1790.8	1731.3	1654.3	1607.2	1747.0
55°	1689.9	1622.9	1566.7	1493.9	1642.8
57.5°	1591.5	1517.0	1479.0	1385.5	1524.5
60°	1456.6	1421.1	1364.8	1275.5	1417.8
62.5°	1318.5	1306.9	1249.9	1157.2	1286.3
65°	1157.2	1184.5	1125.8	1046.4	1149.8
67.5°	1005.0	1053.8	989.3	940.5	1018.2
70°	842.9	899.1	862.7	845.4	878.5
72.5°	683.2	737.8	741.1	728.7	739.5
75°	527.7	588.1	621.2	602.2	604.7
77.5°	400.4	429.3	465.7	480.6	477.3
80°	247.3	297.8	327.6	358.2	347.4
82.5°	124.9	167.1	203.5	236.6	220.9
85°	52.1	67.0	93.5	123.2	118.3
87.5°	15.7	26.5	28.1	39.7	37.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)