

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: CORELITE

Report Number: P#

Luminaire Tested: **44ID-120-L935-CFD2**

Issue Date: 9/24/2021

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



**Test Information**

Test Method: LM-79-08  
Report Number: P#  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA ( 13890049.01)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/24/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 44ID-120-L935-CFD2  
Description: 12000 LUMEN 4X4 IN DEPTH LED LUMINAIRE, WITH DROPPED 2IN CUBE LENS  
AND 3500K CCT, 90CRI LEDS  
Light Source: -  
Ballast/Driver:  
Luminaire Equipment: Sample No. Condition Description

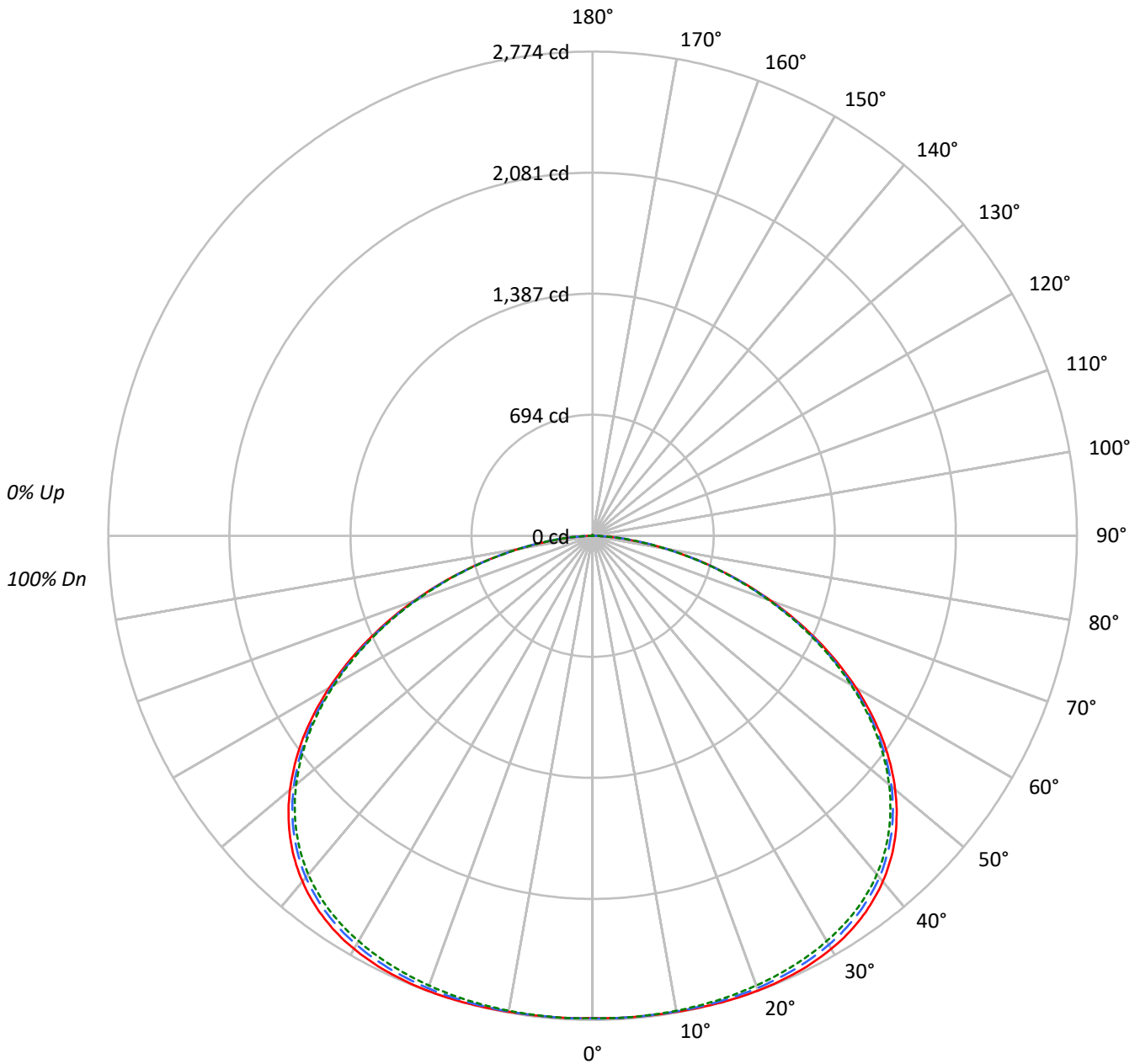
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10009.0 lumens  
Efficiency: N/A  
Efficacy: 104.7 lumens/watt  
Spacing Criteria (0/90/45): 1.48 / 1.45 / 1.57  
Luminous Opening: Rectangular w/ Sides (W: 3.88' x L: 3.88' x H: 0.17')  
CIE Type: Direct

Input Watts (W): 95.6  
Input Voltage (V):  
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#  
CATALOG NUMBER: 44ID-120-L935-CFD2

### Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 44ID-120-L935-CFD2

**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 |    |    |    |  |  |  |  |   |
| 1   | 108 | 103 | 99  | 95  | 105 | 101 | 97  | 93  | 97  | 93  | 90  | 93  | 90  | 87  | 89  | 87  | 85  | 82  |    |    |    |  |  |  |  |   |
| 2   | 98  | 89  | 82  | 76  | 95  | 87  | 81  | 75  | 84  | 78  | 73  | 80  | 76  | 71  | 77  | 73  | 70  | 68  |    |    |    |  |  |  |  |   |
| 3   | 89  | 78  | 69  | 62  | 86  | 76  | 68  | 62  | 73  | 66  | 60  | 70  | 64  | 59  | 67  | 63  | 58  | 56  |    |    |    |  |  |  |  |   |
| 4   | 81  | 68  | 59  | 52  | 78  | 67  | 58  | 52  | 64  | 57  | 51  | 62  | 55  | 50  | 60  | 54  | 49  | 47  |    |    |    |  |  |  |  |   |
| 5   | 74  | 61  | 51  | 44  | 72  | 59  | 51  | 44  | 57  | 49  | 43  | 55  | 48  | 43  | 53  | 47  | 42  | 40  |    |    |    |  |  |  |  |   |
| 6   | 68  | 54  | 45  | 38  | 66  | 53  | 44  | 38  | 51  | 43  | 38  | 50  | 43  | 37  | 48  | 42  | 37  | 35  |    |    |    |  |  |  |  |   |
| 7   | 63  | 49  | 40  | 33  | 61  | 48  | 39  | 33  | 46  | 39  | 33  | 45  | 38  | 33  | 43  | 37  | 32  | 30  |    |    |    |  |  |  |  |   |
| 8   | 58  | 44  | 36  | 29  | 57  | 44  | 35  | 29  | 42  | 35  | 29  | 41  | 34  | 29  | 40  | 33  | 29  | 27  |    |    |    |  |  |  |  |   |
| 9   | 54  | 41  | 32  | 26  | 53  | 40  | 32  | 26  | 39  | 31  | 26  | 38  | 31  | 26  | 37  | 30  | 26  | 24  |    |    |    |  |  |  |  |   |
| 10  | 51  | 37  | 29  | 24  | 50  | 37  | 29  | 24  | 36  | 28  | 23  | 35  | 28  | 23  | 34  | 28  | 23  | 21  |    |    |    |  |  |  |  |   |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 1973 | 1973 | 1973 |
| 5°  | 1975 | 1972 | 1975 |
| 10° | 1993 | 1985 | 1988 |
| 15° | 2026 | 2011 | 2014 |
| 20° | 2074 | 2050 | 2051 |
| 25° | 2133 | 2099 | 2099 |
| 30° | 2199 | 2155 | 2157 |
| 35° | 2266 | 2213 | 2220 |
| 40° | 2326 | 2265 | 2278 |
| 45° | 2371 | 2302 | 2322 |
| 50° | 2391 | 2315 | 2342 |
| 55° | 2375 | 2291 | 2329 |
| 60° | 2315 | 2223 | 2273 |
| 65° | 2204 | 2105 | 2168 |
| 70° | 2029 | 1924 | 1998 |
| 75° | 1771 | 1665 | 1752 |
| 80° | 1406 | 1305 | 1395 |
| 85° | 874  | 787  | 894  |



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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 264.1   | 2.6       |
| 10°-20°   | 783.4   | 7.8       |
| 20°-30°   | 1266.5  | 12.7      |
| 30°-40°   | 1658.9  | 16.6      |
| 40°-50°   | 1865.9  | 18.6      |
| 50°-60°   | 1785.5  | 17.8      |
| 60°-70°   | 1392.5  | 13.9      |
| 70°-80°   | 784.8   | 7.8       |
| 80°-90°   | 194.2   | 1.9       |
| 90°-100°  | 0.7     | 0.0       |
| 100°-110° | 1.1     | 0.0       |
| 110°-120° | 2.0     | 0.0       |
| 120°-130° | 3.2     | 0.0       |
| 130°-140° | 2.5     | 0.0       |
| 140°-150° | 1.5     | 0.0       |
| 150°-160° | 1.1     | 0.0       |
| 160°-170° | 0.7     | 0.0       |
| 170°-180° | 0.3     | 0.0       |
| 0°-30°    | 2314.1  | 23.1      |
| 0°-40°    | 3972.9  | 39.7      |
| 0°-60°    | 7624.3  | 76.2      |
| 0°-90°    | 9995.8  | 99.9      |
| 90°-120°  | 3.8     | 0.0       |
| 90°-150°  | 11.0    | 0.1       |
| 90°-180°  | 13.0    | 0.1       |
| 0°-180°   | 10009.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 2764 | 2764  | 2764 | 2764  | 2764 |      |
| 5°   | 2767 | 2768  | 2767 | 2767  | 2766 | 264  |
| 15°  | 2773 | 2772  | 2766 | 2760  | 2756 | 786  |
| 25°  | 2762 | 2757  | 2740 | 2724  | 2718 | 1276 |
| 35°  | 2678 | 2669  | 2647 | 2631  | 2623 | 1676 |
| 45°  | 2449 | 2439  | 2419 | 2408  | 2399 | 1887 |
| 55°  | 2025 | 2014  | 2000 | 1992  | 1986 | 1805 |
| 65°  | 1425 | 1419  | 1408 | 1404  | 1402 | 1406 |
| 75°  | 745  | 745   | 740  | 739   | 737  | 790  |
| 85°  | 159  | 161   | 163  | 164   | 163  | 184  |
| 90°  | 2    | 1     | 2    | 2     | 1    | 8    |
| 95°  | 1    | 0     | 1    | 0     | 1    | 1    |
| 105° | 1    | 1     | 1    | 1     | 1    | 1    |
| 115° | 2    | 2     | 2    | 2     | 2    | 2    |
| 125° | 4    | 4     | 4    | 4     | 4    | 3    |
| 135° | 4    | 3     | 3    | 3     | 3    | 3    |
| 145° | 3    | 2     | 2    | 2     | 2    | 2    |
| 155° | 2    | 2     | 2    | 3     | 3    | 1    |
| 165° | 2    | 2     | 2    | 3     | 3    | 1    |
| 175° | 3    | 3     | 3    | 3     | 3    | 0    |
| 180° | 3    | 3     | 3    | 3     | 3    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 2764.2 | 2764.2 | 2764.2 | 2764.2 | 2764.2 |
| 0.5°  | 2763.5 | 2765.5 | 2766.2 | 2765.5 | 2764.2 |
| 1°    | 2764.2 | 2765.5 | 2766.2 | 2766.2 | 2764.9 |
| 1.5°  | 2764.9 | 2766.2 | 2766.2 | 2766.2 | 2765.5 |
| 2°    | 2764.9 | 2766.2 | 2766.2 | 2766.9 | 2765.5 |
| 2.5°  | 2765.5 | 2766.9 | 2766.9 | 2766.9 | 2765.5 |
| 3°    | 2766.2 | 2766.9 | 2766.9 | 2766.9 | 2766.2 |
| 3.5°  | 2766.2 | 2766.9 | 2766.9 | 2766.9 | 2766.2 |
| 4°    | 2766.9 | 2766.9 | 2766.9 | 2766.9 | 2766.2 |
| 4.5°  | 2766.9 | 2767.6 | 2766.9 | 2766.9 | 2766.2 |
| 5°    | 2766.9 | 2767.6 | 2766.9 | 2766.9 | 2766.2 |
| 5.5°  | 2766.9 | 2767.6 | 2766.9 | 2766.9 | 2766.2 |
| 6°    | 2767.6 | 2767.6 | 2766.9 | 2766.9 | 2765.5 |
| 6.5°  | 2767.6 | 2768.2 | 2767.6 | 2766.9 | 2765.5 |
| 7°    | 2767.6 | 2768.2 | 2766.9 | 2766.9 | 2765.5 |
| 7.5°  | 2767.6 | 2768.2 | 2766.9 | 2766.2 | 2764.9 |
| 8°    | 2768.2 | 2768.2 | 2767.6 | 2766.2 | 2764.9 |
| 8.5°  | 2768.2 | 2768.9 | 2766.9 | 2766.2 | 2764.2 |
| 9°    | 2768.9 | 2768.9 | 2767.6 | 2765.5 | 2764.2 |
| 9.5°  | 2768.9 | 2769.6 | 2766.9 | 2765.5 | 2763.5 |
| 10°   | 2769.6 | 2769.6 | 2766.9 | 2764.9 | 2762.8 |
| 10.5° | 2770.3 | 2770.3 | 2766.9 | 2764.9 | 2762.8 |
| 11°   | 2770.3 | 2770.3 | 2766.9 | 2764.2 | 2762.2 |
| 11.5° | 2770.9 | 2770.9 | 2766.9 | 2763.5 | 2761.5 |
| 12°   | 2770.9 | 2770.9 | 2766.9 | 2763.5 | 2760.8 |
| 12.5° | 2771.6 | 2770.9 | 2766.2 | 2762.8 | 2760.1 |
| 13°   | 2771.6 | 2770.9 | 2766.2 | 2762.2 | 2759.5 |
| 13.5° | 2772.3 | 2771.6 | 2766.2 | 2761.5 | 2758.8 |
| 14°   | 2772.3 | 2771.6 | 2766.2 | 2760.8 | 2757.5 |
| 14.5° | 2773.0 | 2771.6 | 2765.5 | 2760.1 | 2756.8 |
| 15°   | 2773.0 | 2772.3 | 2765.5 | 2759.5 | 2756.1 |
| 15.5° | 2773.6 | 2772.3 | 2764.9 | 2758.1 | 2754.8 |
| 16°   | 2773.0 | 2772.3 | 2764.2 | 2757.5 | 2753.4 |
| 16.5° | 2773.6 | 2772.3 | 2764.2 | 2756.1 | 2752.1 |
| 17°   | 2773.6 | 2771.6 | 2763.5 | 2754.8 | 2751.4 |
| 17.5° | 2773.6 | 2771.6 | 2762.2 | 2754.1 | 2750.0 |
| 18°   | 2773.6 | 2771.6 | 2761.5 | 2752.7 | 2748.0 |
| 18.5° | 2773.6 | 2770.9 | 2760.8 | 2751.4 | 2746.7 |
| 19°   | 2773.0 | 2770.9 | 2760.1 | 2750.0 | 2745.3 |
| 19.5° | 2773.0 | 2770.3 | 2758.8 | 2748.0 | 2743.3 |
| 20°   | 2772.3 | 2769.6 | 2757.5 | 2746.7 | 2741.9 |
| 20.5° | 2771.6 | 2768.9 | 2756.8 | 2745.3 | 2739.9 |
| 21°   | 2771.6 | 2768.2 | 2755.4 | 2743.3 | 2737.9 |



TEST NUMBER: P#

CATALOG NUMBER: 44ID-120-L935-CFD2

**CANDELA DISTRIBUTION (continued):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 22.5° | 2768.9 | 2764.9 | 2750.7 | 2737.2 | 2731.2 |
| 23°   | 2767.6 | 2763.5 | 2748.7 | 2735.2 | 2729.1 |
| 23.5° | 2766.2 | 2762.2 | 2746.7 | 2732.5 | 2726.4 |
| 24°   | 2764.9 | 2760.8 | 2744.6 | 2729.8 | 2723.7 |
| 24.5° | 2763.5 | 2758.8 | 2742.6 | 2727.1 | 2721.0 |
| 25°   | 2761.5 | 2756.8 | 2739.9 | 2724.4 | 2718.3 |
| 25.5° | 2759.5 | 2754.8 | 2737.2 | 2721.7 | 2715.0 |
| 26°   | 2757.5 | 2752.7 | 2734.5 | 2719.0 | 2712.3 |
| 26.5° | 2755.4 | 2750.0 | 2731.8 | 2715.7 | 2708.9 |
| 27°   | 2752.7 | 2747.3 | 2728.5 | 2712.3 | 2705.5 |
| 27.5° | 2750.0 | 2744.6 | 2725.1 | 2708.9 | 2702.2 |
| 28°   | 2747.3 | 2741.3 | 2721.7 | 2705.5 | 2698.8 |
| 28.5° | 2744.0 | 2737.9 | 2718.3 | 2701.5 | 2694.8 |
| 29°   | 2740.6 | 2734.5 | 2714.3 | 2697.4 | 2690.7 |
| 29.5° | 2737.2 | 2730.5 | 2710.3 | 2693.4 | 2686.0 |
| 30°   | 2733.2 | 2726.4 | 2705.5 | 2688.7 | 2681.3 |
| 30.5° | 2729.1 | 2722.4 | 2700.8 | 2684.0 | 2677.2 |
| 31°   | 2724.4 | 2717.7 | 2696.1 | 2679.2 | 2671.8 |
| 31.5° | 2720.4 | 2713.0 | 2690.7 | 2674.5 | 2667.1 |
| 32°   | 2715.0 | 2707.6 | 2686.0 | 2669.1 | 2661.7 |
| 32.5° | 2709.6 | 2702.2 | 2679.9 | 2663.1 | 2655.6 |
| 33°   | 2704.2 | 2696.1 | 2673.9 | 2657.7 | 2649.6 |
| 33.5° | 2698.1 | 2690.0 | 2667.8 | 2651.6 | 2643.5 |
| 34°   | 2691.4 | 2683.3 | 2661.0 | 2644.9 | 2637.4 |
| 34.5° | 2684.6 | 2676.5 | 2654.3 | 2638.1 | 2630.7 |
| 35°   | 2677.9 | 2669.1 | 2646.9 | 2630.7 | 2623.3 |
| 35.5° | 2670.5 | 2661.7 | 2639.5 | 2623.3 | 2615.9 |
| 36°   | 2663.1 | 2653.6 | 2631.4 | 2615.9 | 2607.8 |
| 36.5° | 2654.3 | 2645.5 | 2623.3 | 2607.8 | 2600.4 |
| 37°   | 2645.5 | 2636.8 | 2614.5 | 2599.0 | 2591.6 |
| 37.5° | 2636.8 | 2627.3 | 2605.8 | 2590.3 | 2582.2 |
| 38°   | 2627.3 | 2618.6 | 2596.3 | 2581.5 | 2573.4 |
| 38.5° | 2617.9 | 2608.5 | 2586.2 | 2571.4 | 2564.0 |
| 39°   | 2607.8 | 2597.7 | 2576.1 | 2561.9 | 2553.8 |
| 39.5° | 2597.0 | 2586.9 | 2566.0 | 2551.1 | 2543.7 |
| 40°   | 2585.5 | 2576.1 | 2554.5 | 2540.4 | 2532.9 |
| 40.5° | 2574.7 | 2564.6 | 2543.1 | 2529.6 | 2521.5 |
| 41°   | 2562.6 | 2552.5 | 2531.6 | 2517.4 | 2509.3 |
| 41.5° | 2549.8 | 2539.7 | 2518.8 | 2505.3 | 2497.2 |
| 42°   | 2537.0 | 2526.9 | 2506.0 | 2493.2 | 2484.4 |
| 42.5° | 2523.5 | 2513.4 | 2492.5 | 2479.7 | 2471.6 |
| 43°   | 2510.0 | 2499.2 | 2479.0 | 2466.2 | 2458.1 |
| 43.5° | 2495.9 | 2485.1 | 2464.9 | 2452.0 | 2444.0 |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 45°   | 2449.3 | 2438.6 | 2419.0 | 2407.5 | 2398.8 |
| 45.5° | 2433.2 | 2421.7 | 2402.8 | 2391.4 | 2383.3 |
| 46°   | 2416.3 | 2404.8 | 2386.0 | 2374.5 | 2366.4 |
| 46.5° | 2398.8 | 2387.3 | 2369.1 | 2357.7 | 2349.6 |
| 47°   | 2380.6 | 2369.8 | 2350.9 | 2340.8 | 2332.0 |
| 47.5° | 2362.4 | 2350.9 | 2332.7 | 2322.6 | 2313.8 |
| 48°   | 2344.2 | 2332.0 | 2314.5 | 2303.7 | 2295.0 |
| 48.5° | 2324.6 | 2313.2 | 2295.6 | 2285.5 | 2277.4 |
| 49°   | 2303.7 | 2292.9 | 2275.4 | 2264.6 | 2257.2 |
| 49.5° | 2283.5 | 2272.7 | 2255.2 | 2245.1 | 2237.0 |
| 50°   | 2262.6 | 2251.1 | 2235.0 | 2224.8 | 2216.7 |
| 50.5° | 2241.0 | 2229.6 | 2213.4 | 2203.3 | 2195.8 |
| 51°   | 2219.4 | 2208.0 | 2191.8 | 2181.7 | 2173.6 |
| 51.5° | 2196.5 | 2185.1 | 2168.9 | 2159.4 | 2152.0 |
| 52°   | 2173.6 | 2162.1 | 2146.0 | 2137.2 | 2129.8 |
| 52.5° | 2150.7 | 2139.2 | 2123.0 | 2113.6 | 2106.9 |
| 53°   | 2125.7 | 2114.9 | 2100.1 | 2091.3 | 2083.9 |
| 53.5° | 2100.8 | 2090.0 | 2075.2 | 2066.4 | 2059.7 |
| 54°   | 2075.8 | 2065.1 | 2050.2 | 2041.5 | 2035.4 |
| 54.5° | 2051.6 | 2040.1 | 2026.0 | 2017.2 | 2011.1 |
| 55°   | 2025.3 | 2014.5 | 2000.3 | 1991.6 | 1985.5 |
| 55.5° | 1999.0 | 1988.2 | 1974.0 | 1965.3 | 1959.9 |
| 56°   | 1971.3 | 1961.2 | 1947.1 | 1939.7 | 1934.3 |
| 56.5° | 1943.7 | 1934.3 | 1920.1 | 1912.7 | 1907.3 |
| 57°   | 1916.7 | 1906.6 | 1893.1 | 1886.4 | 1881.0 |
| 57.5° | 1889.8 | 1879.0 | 1865.5 | 1858.8 | 1853.4 |
| 58°   | 1860.1 | 1850.0 | 1837.2 | 1830.4 | 1825.7 |
| 58.5° | 1831.1 | 1821.7 | 1808.2 | 1802.1 | 1797.4 |
| 59°   | 1802.1 | 1792.7 | 1779.9 | 1773.8 | 1769.1 |
| 59.5° | 1771.8 | 1763.0 | 1750.2 | 1744.1 | 1739.4 |
| 60°   | 1742.1 | 1732.7 | 1720.5 | 1715.1 | 1710.4 |
| 60.5° | 1711.8 | 1703.7 | 1690.9 | 1685.5 | 1680.8 |
| 61°   | 1680.8 | 1672.7 | 1660.5 | 1655.1 | 1650.4 |
| 61.5° | 1649.1 | 1642.3 | 1630.2 | 1624.8 | 1620.8 |
| 62°   | 1618.1 | 1611.3 | 1599.2 | 1594.5 | 1590.4 |
| 62.5° | 1586.4 | 1579.6 | 1567.5 | 1562.8 | 1558.7 |
| 63°   | 1554.7 | 1547.9 | 1536.5 | 1531.8 | 1527.7 |
| 63.5° | 1522.3 | 1515.6 | 1504.8 | 1500.1 | 1496.0 |
| 64°   | 1490.0 | 1483.2 | 1471.8 | 1468.4 | 1463.7 |
| 64.5° | 1457.6 | 1450.9 | 1439.4 | 1436.0 | 1432.0 |
| 65°   | 1424.6 | 1419.2 | 1408.4 | 1404.3 | 1401.6 |
| 65.5° | 1392.2 | 1385.5 | 1375.4 | 1372.0 | 1367.9 |
| 66°   | 1357.8 | 1352.4 | 1342.3 | 1338.9 | 1336.3 |





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CATALOG NUMBER: 44ID-120-L935-CFD2

**CANDELA DISTRIBUTION (continued):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 67.5° | 1258.0 | 1252.0 | 1243.2 | 1239.8 | 1236.5 |
| 68°   | 1223.7 | 1218.3 | 1209.5 | 1206.8 | 1203.4 |
| 68.5° | 1189.3 | 1183.9 | 1175.1 | 1173.1 | 1171.1 |
| 69°   | 1154.9 | 1149.5 | 1142.1 | 1140.1 | 1137.4 |
| 69.5° | 1121.2 | 1115.8 | 1109.0 | 1107.0 | 1103.7 |
| 70°   | 1086.8 | 1082.1 | 1075.3 | 1073.3 | 1069.9 |
| 70.5° | 1052.4 | 1047.7 | 1041.6 | 1039.6 | 1036.2 |
| 71°   | 1018.0 | 1014.0 | 1008.6 | 1005.9 | 1002.5 |
| 71.5° | 984.3  | 980.3  | 974.2  | 972.2  | 969.5  |
| 72°   | 949.9  | 946.6  | 940.5  | 939.2  | 935.8  |
| 72.5° | 915.6  | 912.9  | 906.8  | 905.4  | 902.7  |
| 73°   | 881.2  | 878.5  | 872.4  | 871.1  | 869.0  |
| 73.5° | 847.5  | 844.8  | 839.4  | 837.3  | 835.3  |
| 74°   | 813.8  | 811.7  | 806.3  | 805.0  | 802.3  |
| 74.5° | 779.4  | 778.0  | 773.3  | 771.3  | 769.3  |
| 75°   | 745.0  | 745.0  | 740.3  | 738.9  | 736.9  |
| 75.5° | 711.9  | 711.9  | 707.2  | 705.9  | 703.9  |
| 76°   | 678.9  | 678.9  | 674.2  | 672.9  | 670.2  |
| 76.5° | 645.5  | 645.8  | 641.8  | 640.4  | 638.2  |
| 77°   | 613.6  | 613.9  | 610.3  | 608.5  | 606.2  |
| 77.5° | 579.4  | 581.0  | 578.1  | 576.4  | 574.2  |
| 78°   | 547.5  | 549.5  | 546.5  | 545.2  | 543.3  |
| 78.5° | 517.4  | 518.7  | 516.8  | 515.2  | 512.6  |
| 79°   | 486.0  | 487.0  | 485.7  | 484.3  | 481.8  |
| 79.5° | 454.9  | 456.6  | 455.8  | 454.5  | 451.6  |
| 80°   | 425.2  | 426.4  | 426.6  | 424.8  | 422.0  |
| 80.5° | 393.9  | 396.4  | 396.8  | 395.0  | 393.6  |
| 81°   | 365.0  | 367.4  | 368.0  | 367.0  | 365.1  |
| 81.5° | 336.6  | 339.3  | 339.9  | 339.3  | 336.9  |
| 82°   | 308.0  | 311.4  | 312.4  | 311.9  | 309.3  |
| 82.5° | 280.8  | 284.6  | 285.7  | 285.3  | 282.8  |
| 83°   | 254.4  | 258.5  | 259.5  | 259.8  | 257.5  |
| 83.5° | 228.8  | 232.7  | 234.0  | 234.4  | 231.9  |
| 84°   | 204.3  | 207.8  | 209.4  | 210.1  | 208.0  |
| 84.5° | 181.0  | 183.8  | 185.7  | 186.6  | 185.6  |
| 85°   | 159.0  | 161.0  | 162.8  | 164.0  | 162.6  |
| 85.5° | 137.7  | 139.3  | 140.6  | 142.5  | 141.4  |
| 86°   | 117.8  | 119.5  | 120.4  | 121.9  | 121.9  |
| 86.5° | 99.0   | 99.7   | 100.5  | 102.2  | 102.2  |
| 87°   | 80.9   | 81.0   | 81.2   | 83.5   | 83.5   |
| 87.5° | 62.4   | 63.0   | 63.2   | 65.2   | 65.9   |
| 88°   | 44.0   | 45.6   | 46.0   | 47.8   | 47.7   |
| 88.5° | 31.1   | 31.1   | 31.1   | 32.9   | 33.3   |



TEST NUMBER: P#

CATALOG NUMBER: 44ID-120-L935-CFD2

**CANDELA DISTRIBUTION (continued):**

|        | 0°  | 22.5° | 45° | 67.5° | 90° |
|--------|-----|-------|-----|-------|-----|
| 90°    | 1.5 | 1.4   | 1.5 | 1.6   | 1.4 |
| 90.5°  | 0.5 | 0.4   | 0.5 | 0.5   | 0.5 |
| 91°    | 0.5 | 0.4   | 0.4 | 0.5   | 0.4 |
| 91.5°  | 0.6 | 0.5   | 0.5 | 0.4   | 0.3 |
| 92°    | 0.5 | 0.5   | 0.5 | 0.5   | 0.5 |
| 92.5°  | 0.5 | 0.5   | 0.5 | 0.5   | 0.5 |
| 93°    | 0.5 | 0.5   | 0.5 | 0.5   | 0.4 |
| 93.5°  | 0.6 | 0.5   | 0.5 | 0.5   | 0.6 |
| 94°    | 0.6 | 0.5   | 0.6 | 0.5   | 0.7 |
| 94.5°  | 0.6 | 0.6   | 0.5 | 0.6   | 0.6 |
| 95°    | 0.6 | 0.5   | 0.6 | 0.5   | 0.7 |
| 95.5°  | 0.5 | 0.6   | 0.7 | 0.6   | 0.7 |
| 96°    | 0.7 | 0.7   | 0.6 | 0.6   | 0.7 |
| 96.5°  | 0.7 | 0.7   | 0.7 | 0.6   | 0.7 |
| 97°    | 0.7 | 0.7   | 0.7 | 0.6   | 0.8 |
| 97.5°  | 0.8 | 0.7   | 0.7 | 0.6   | 0.8 |
| 98°    | 0.9 | 0.7   | 0.7 | 0.7   | 0.9 |
| 98.5°  | 0.9 | 0.7   | 0.7 | 0.7   | 0.8 |
| 99°    | 0.8 | 0.8   | 0.7 | 0.7   | 0.7 |
| 99.5°  | 0.9 | 0.7   | 0.8 | 0.7   | 0.7 |
| 100°   | 0.9 | 0.8   | 0.8 | 0.8   | 0.9 |
| 100.5° | 0.9 | 0.9   | 0.8 | 0.9   | 0.9 |
| 101°   | 0.9 | 0.8   | 0.8 | 0.8   | 0.8 |
| 101.5° | 1.0 | 0.8   | 0.9 | 0.9   | 0.9 |
| 102°   | 1.1 | 0.9   | 0.9 | 0.9   | 0.9 |
| 102.5° | 0.9 | 0.9   | 0.9 | 0.9   | 0.9 |
| 103°   | 0.9 | 0.8   | 0.9 | 0.9   | 0.9 |
| 103.5° | 1.0 | 1.0   | 0.9 | 0.9   | 0.9 |
| 104°   | 1.1 | 1.0   | 1.0 | 0.9   | 0.9 |
| 104.5° | 1.0 | 1.1   | 1.1 | 1.1   | 0.9 |
| 105°   | 1.2 | 1.1   | 1.0 | 1.1   | 1.1 |
| 105.5° | 1.1 | 0.9   | 1.1 | 1.0   | 1.0 |
| 106°   | 1.1 | 1.1   | 1.1 | 1.1   | 1.2 |
| 106.5° | 1.2 | 1.1   | 1.1 | 1.1   | 1.0 |
| 107°   | 1.1 | 1.1   | 1.2 | 1.2   | 1.1 |
| 107.5° | 1.3 | 1.1   | 1.2 | 1.3   | 1.2 |
| 108°   | 1.3 | 1.1   | 1.1 | 1.3   | 1.1 |
| 108.5° | 1.3 | 1.3   | 1.3 | 1.2   | 1.1 |
| 109°   | 1.3 | 1.3   | 1.3 | 1.3   | 1.3 |
| 109.5° | 1.4 | 1.2   | 1.4 | 1.3   | 1.2 |
| 110°   | 1.3 | 1.3   | 1.3 | 1.4   | 1.3 |
| 110.5° | 1.4 | 1.3   | 1.4 | 1.4   | 1.5 |
| 111°   | 1.4 | 1.5   | 1.5 | 1.5   | 1.4 |



TEST NUMBER: P#

CATALOG NUMBER: 44ID-120-L935-CFD2

**CANDELA DISTRIBUTION (continued):**

|        | 0°  | 22.5° | 45° | 67.5° | 90° |
|--------|-----|-------|-----|-------|-----|
| 112.5° | 1.6 | 1.7   | 1.8 | 1.7   | 1.6 |
| 113°   | 1.8 | 1.6   | 1.6 | 1.7   | 1.7 |
| 113.5° | 1.8 | 1.8   | 1.8 | 1.9   | 1.9 |
| 114°   | 1.9 | 1.9   | 2.0 | 2.0   | 1.9 |
| 114.5° | 2.0 | 2.0   | 2.0 | 2.0   | 1.8 |
| 115°   | 2.0 | 2.0   | 2.0 | 2.0   | 2.0 |
| 115.5° | 2.2 | 2.0   | 2.2 | 2.1   | 2.0 |
| 116°   | 2.2 | 2.2   | 2.2 | 2.2   | 2.1 |
| 116.5° | 2.3 | 2.3   | 2.3 | 2.3   | 2.2 |
| 117°   | 2.4 | 2.4   | 2.4 | 2.4   | 2.2 |
| 117.5° | 2.6 | 2.4   | 2.5 | 2.4   | 2.3 |
| 118°   | 2.6 | 2.5   | 2.6 | 2.5   | 2.4 |
| 118.5° | 2.8 | 2.6   | 2.6 | 2.6   | 2.5 |
| 119°   | 2.8 | 2.8   | 2.8 | 2.6   | 2.6 |
| 119.5° | 2.8 | 2.8   | 2.8 | 2.8   | 2.7 |
| 120°   | 3.0 | 3.0   | 2.9 | 2.8   | 2.9 |
| 120.5° | 3.0 | 2.9   | 3.0 | 3.0   | 2.9 |
| 121°   | 3.0 | 3.0   | 3.0 | 3.0   | 2.9 |
| 121.5° | 3.4 | 3.2   | 3.2 | 3.0   | 3.0 |
| 122°   | 3.2 | 3.4   | 3.2 | 3.2   | 3.2 |
| 122.5° | 3.4 | 3.4   | 3.3 | 3.3   | 3.2 |
| 123°   | 3.5 | 3.5   | 3.4 | 3.4   | 3.3 |
| 123.5° | 3.5 | 3.6   | 3.4 | 3.3   | 3.4 |
| 124°   | 3.6 | 3.6   | 3.6 | 3.4   | 3.4 |
| 124.5° | 3.8 | 3.6   | 3.6 | 3.5   | 3.5 |
| 125°   | 3.9 | 3.8   | 3.7 | 3.6   | 3.6 |
| 125.5° | 3.9 | 3.8   | 3.7 | 3.6   | 3.7 |
| 126°   | 3.9 | 3.8   | 3.7 | 3.7   | 3.6 |
| 126.5° | 3.8 | 3.8   | 3.9 | 3.7   | 3.8 |
| 127°   | 3.9 | 3.9   | 3.8 | 3.7   | 3.6 |
| 127.5° | 4.0 | 4.0   | 3.9 | 3.7   | 3.6 |
| 128°   | 4.0 | 3.8   | 3.8 | 3.7   | 3.8 |
| 128.5° | 3.9 | 3.9   | 3.8 | 3.6   | 3.8 |
| 129°   | 3.8 | 3.8   | 3.8 | 3.7   | 3.6 |
| 129.5° | 3.8 | 3.8   | 3.8 | 3.7   | 3.7 |
| 130°   | 3.8 | 3.8   | 3.7 | 3.6   | 3.6 |
| 130.5° | 3.9 | 3.8   | 3.8 | 3.4   | 3.6 |
| 131°   | 3.7 | 3.7   | 3.7 | 3.5   | 3.6 |
| 131.5° | 3.8 | 3.6   | 3.5 | 3.4   | 3.5 |
| 132°   | 3.7 | 3.6   | 3.6 | 3.4   | 3.4 |
| 132.5° | 3.7 | 3.6   | 3.5 | 3.4   | 3.5 |
| 133°   | 3.6 | 3.4   | 3.4 | 3.2   | 3.4 |
| 133.5° | 3.6 | 3.4   | 3.3 | 3.2   | 3.4 |



TEST NUMBER: P#

CATALOG NUMBER: 44ID-120-L935-CFD2

**CANDELA DISTRIBUTION (continued):**

|        | 0°  | 22.5° | 45° | 67.5° | 90° |
|--------|-----|-------|-----|-------|-----|
| 135°   | 3.5 | 3.3   | 3.2 | 3.1   | 3.4 |
| 135.5° | 3.3 | 3.4   | 3.2 | 3.0   | 3.2 |
| 136°   | 3.2 | 3.2   | 3.0 | 2.9   | 3.2 |
| 136.5° | 3.3 | 3.2   | 3.0 | 2.9   | 3.2 |
| 137°   | 3.2 | 3.1   | 3.0 | 2.9   | 3.1 |
| 137.5° | 3.2 | 3.0   | 3.0 | 2.8   | 3.0 |
| 138°   | 3.1 | 3.0   | 2.8 | 2.8   | 3.0 |
| 138.5° | 3.2 | 3.0   | 2.9 | 2.7   | 2.9 |
| 139°   | 2.8 | 2.9   | 2.8 | 2.6   | 3.0 |
| 139.5° | 3.0 | 2.8   | 2.7 | 2.6   | 2.9 |
| 140°   | 2.9 | 2.7   | 2.8 | 2.6   | 2.7 |
| 140.5° | 2.9 | 2.7   | 2.7 | 2.6   | 2.7 |
| 141°   | 2.8 | 2.7   | 2.6 | 2.4   | 2.6 |
| 141.5° | 2.6 | 2.7   | 2.7 | 2.4   | 2.6 |
| 142°   | 2.5 | 2.5   | 2.6 | 2.5   | 2.4 |
| 142.5° | 2.5 | 2.6   | 2.6 | 2.4   | 2.4 |
| 143°   | 2.6 | 2.6   | 2.6 | 2.5   | 2.4 |
| 143.5° | 2.6 | 2.6   | 2.6 | 2.4   | 2.4 |
| 144°   | 2.6 | 2.4   | 2.6 | 2.3   | 2.4 |
| 144.5° | 2.5 | 2.4   | 2.5 | 2.4   | 2.4 |
| 145°   | 2.6 | 2.4   | 2.5 | 2.2   | 2.4 |
| 145.5° | 2.5 | 2.4   | 2.4 | 2.2   | 2.6 |
| 146°   | 2.5 | 2.4   | 2.3 | 2.2   | 2.4 |
| 146.5° | 2.6 | 2.4   | 2.3 | 2.2   | 2.4 |
| 147°   | 2.5 | 2.4   | 2.2 | 2.3   | 2.3 |
| 147.5° | 2.4 | 2.4   | 2.2 | 2.3   | 2.5 |
| 148°   | 2.5 | 2.4   | 2.3 | 2.2   | 2.5 |
| 148.5° | 2.6 | 2.4   | 2.3 | 2.2   | 2.5 |
| 149°   | 2.5 | 2.4   | 2.3 | 2.2   | 2.5 |
| 149.5° | 2.6 | 2.3   | 2.3 | 2.2   | 2.6 |
| 150°   | 2.6 | 2.4   | 2.3 | 2.2   | 2.5 |
| 150.5° | 2.5 | 2.4   | 2.3 | 2.3   | 2.5 |
| 151°   | 2.6 | 2.4   | 2.2 | 2.3   | 2.6 |
| 151.5° | 2.6 | 2.4   | 2.2 | 2.3   | 2.6 |
| 152°   | 2.6 | 2.4   | 2.4 | 2.4   | 2.5 |
| 152.5° | 2.6 | 2.5   | 2.3 | 2.4   | 2.6 |
| 153°   | 2.6 | 2.4   | 2.4 | 2.5   | 2.7 |
| 153.5° | 2.8 | 2.5   | 2.3 | 2.4   | 2.6 |
| 154°   | 2.6 | 2.5   | 2.4 | 2.4   | 2.6 |
| 154.5° | 2.6 | 2.4   | 2.4 | 2.6   | 2.7 |
| 155°   | 2.5 | 2.5   | 2.5 | 2.6   | 2.8 |
| 155.5° | 2.6 | 2.4   | 2.4 | 2.5   | 2.7 |
| 156°   | 2.5 | 2.5   | 2.5 | 2.5   | 2.7 |



TEST NUMBER: P#

CATALOG NUMBER: 44ID-120-L935-CFD2

**CANDELA DISTRIBUTION (continued):**

|        | 0°  | 22.5° | 45° | 67.5° | 90° |
|--------|-----|-------|-----|-------|-----|
| 157.5° | 2.5 | 2.4   | 2.4 | 2.6   | 2.6 |
| 158°   | 2.7 | 2.5   | 2.4 | 2.5   | 2.7 |
| 158.5° | 2.6 | 2.5   | 2.4 | 2.5   | 2.6 |
| 159°   | 2.6 | 2.5   | 2.4 | 2.5   | 2.8 |
| 159.5° | 2.6 | 2.4   | 2.4 | 2.5   | 2.8 |
| 160°   | 2.6 | 2.5   | 2.4 | 2.5   | 2.7 |
| 160.5° | 2.5 | 2.4   | 2.4 | 2.6   | 2.7 |
| 161°   | 2.5 | 2.4   | 2.4 | 2.6   | 2.7 |
| 161.5° | 2.6 | 2.5   | 2.4 | 2.4   | 2.6 |
| 162°   | 2.5 | 2.4   | 2.5 | 2.6   | 2.6 |
| 162.5° | 2.6 | 2.6   | 2.5 | 2.5   | 2.6 |
| 163°   | 2.6 | 2.5   | 2.6 | 2.6   | 2.6 |
| 163.5° | 2.6 | 2.5   | 2.6 | 2.6   | 2.8 |
| 164°   | 2.5 | 2.6   | 2.5 | 2.7   | 2.7 |
| 164.5° | 2.4 | 2.6   | 2.6 | 2.7   | 2.8 |
| 165°   | 2.5 | 2.5   | 2.4 | 2.6   | 2.7 |
| 165.5° | 2.4 | 2.5   | 2.4 | 2.8   | 2.7 |
| 166°   | 2.6 | 2.6   | 2.5 | 2.7   | 2.6 |
| 166.5° | 2.6 | 2.5   | 2.4 | 2.8   | 2.5 |
| 167°   | 2.5 | 2.7   | 2.5 | 2.8   | 2.8 |
| 167.5° | 2.6 | 2.7   | 2.6 | 2.9   | 2.8 |
| 168°   | 2.6 | 2.6   | 2.5 | 2.8   | 2.7 |
| 168.5° | 2.6 | 2.8   | 2.6 | 3.0   | 2.8 |
| 169°   | 2.8 | 2.7   | 2.5 | 3.0   | 2.8 |
| 169.5° | 2.7 | 2.7   | 2.6 | 3.0   | 2.8 |
| 170°   | 2.8 | 2.7   | 2.6 | 3.0   | 2.8 |
| 170.5° | 2.8 | 2.8   | 2.6 | 3.0   | 2.9 |
| 171°   | 2.8 | 2.8   | 2.8 | 3.0   | 3.0 |
| 171.5° | 2.7 | 2.8   | 2.8 | 3.1   | 2.8 |
| 172°   | 2.7 | 2.8   | 2.8 | 3.1   | 2.9 |
| 172.5° | 2.8 | 2.8   | 2.9 | 3.1   | 2.9 |
| 173°   | 2.7 | 2.7   | 2.9 | 3.1   | 3.0 |
| 173.5° | 2.9 | 2.8   | 3.0 | 3.0   | 3.0 |
| 174°   | 3.0 | 3.0   | 3.2 | 3.1   | 3.0 |
| 174.5° | 3.0 | 3.1   | 3.1 | 3.2   | 3.1 |
| 175°   | 3.2 | 3.1   | 3.2 | 3.2   | 3.0 |
| 175.5° | 3.2 | 3.1   | 3.3 | 3.2   | 3.2 |
| 176°   | 3.3 | 3.2   | 3.2 | 3.1   | 3.1 |
| 176.5° | 3.4 | 3.2   | 3.2 | 3.0   | 3.1 |
| 177°   | 3.2 | 3.2   | 3.0 | 3.0   | 3.1 |
| 177.5° | 3.3 | 3.2   | 3.0 | 2.9   | 3.2 |
| 178°   | 3.1 | 3.0   | 2.9 | 2.9   | 3.0 |
| 178.5° | 3.0 | 3.0   | 2.8 | 2.8   | 2.8 |



TEST NUMBER: P#

CATALOG NUMBER: 44ID-120-L935-CFD2

**CANDELA DISTRIBUTION (continued):**

|      | 0°  | 22.5° | 45° | 67.5° | 90° |
|------|-----|-------|-----|-------|-----|
| 180° | 2.6 | 2.6   | 2.6 | 2.6   | 2.6 |



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







|       |        |        |        |        |        |
|-------|--------|--------|--------|--------|--------|
| 21.5° | 2770.9 | 2767.6 | 2754.1 | 2741.3 | 2735.9 |
| 22°   | 2769.6 | 2766.2 | 2752.1 | 2739.2 | 2733.9 |



|       |        |        |        |        |        |
|-------|--------|--------|--------|--------|--------|
| 44°   | 2480.4 | 2470.2 | 2450.0 | 2437.9 | 2429.8 |
| 44.5° | 2464.9 | 2454.1 | 2435.2 | 2422.4 | 2414.3 |



|       |        |        |        |        |        |
|-------|--------|--------|--------|--------|--------|
| 66.5° | 1324.8 | 1319.4 | 1309.3 | 1305.9 | 1302.5 |
| 67°   | 1291.8 | 1285.7 | 1276.2 | 1272.9 | 1270.2 |



|       |      |      |      |      |      |
|-------|------|------|------|------|------|
| 89°   | 19.7 | 19.3 | 19.1 | 20.2 | 20.4 |
| 89.5° | 8.7  | 8.8  | 8.6  | 9.2  | 9.1  |



|        |     |     |     |     |     |
|--------|-----|-----|-----|-----|-----|
| 111.5° | 1.7 | 1.5 | 1.6 | 1.6 | 1.5 |
| 112°   | 1.7 | 1.6 | 1.6 | 1.6 | 1.7 |





|        |     |     |     |     |     |
|--------|-----|-----|-----|-----|-----|
| 134°   | 3.4 | 3.4 | 3.3 | 3.2 | 3.4 |
| 134.5° | 3.5 | 3.3 | 3.3 | 3.1 | 3.2 |



|        |     |     |     |     |     |
|--------|-----|-----|-----|-----|-----|
| 156.5° | 2.6 | 2.4 | 2.5 | 2.6 | 2.6 |
| 157°   | 2.6 | 2.4 | 2.5 | 2.5 | 2.6 |



|        |     |     |     |     |     |
|--------|-----|-----|-----|-----|-----|
| 179°   | 2.9 | 2.8 | 2.7 | 2.8 | 2.9 |
| 179.5° | 2.6 | 2.7 | 2.6 | 2.6 | 2.8 |



(END OF REPORT)