

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-80-L835-CFR2**

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-80-L835-CFR2  
Description: 8000 LUMEN 4X4 IN DEPTH LED LUMINAIRE, WITH RECESSED 2IN CUBE LENS  
AND 3500K CCT, 80CRI LEDS  
Light Source: -  
Ballast/Driver:  
Luminaire Equipment: Sample No.   Condition   Description

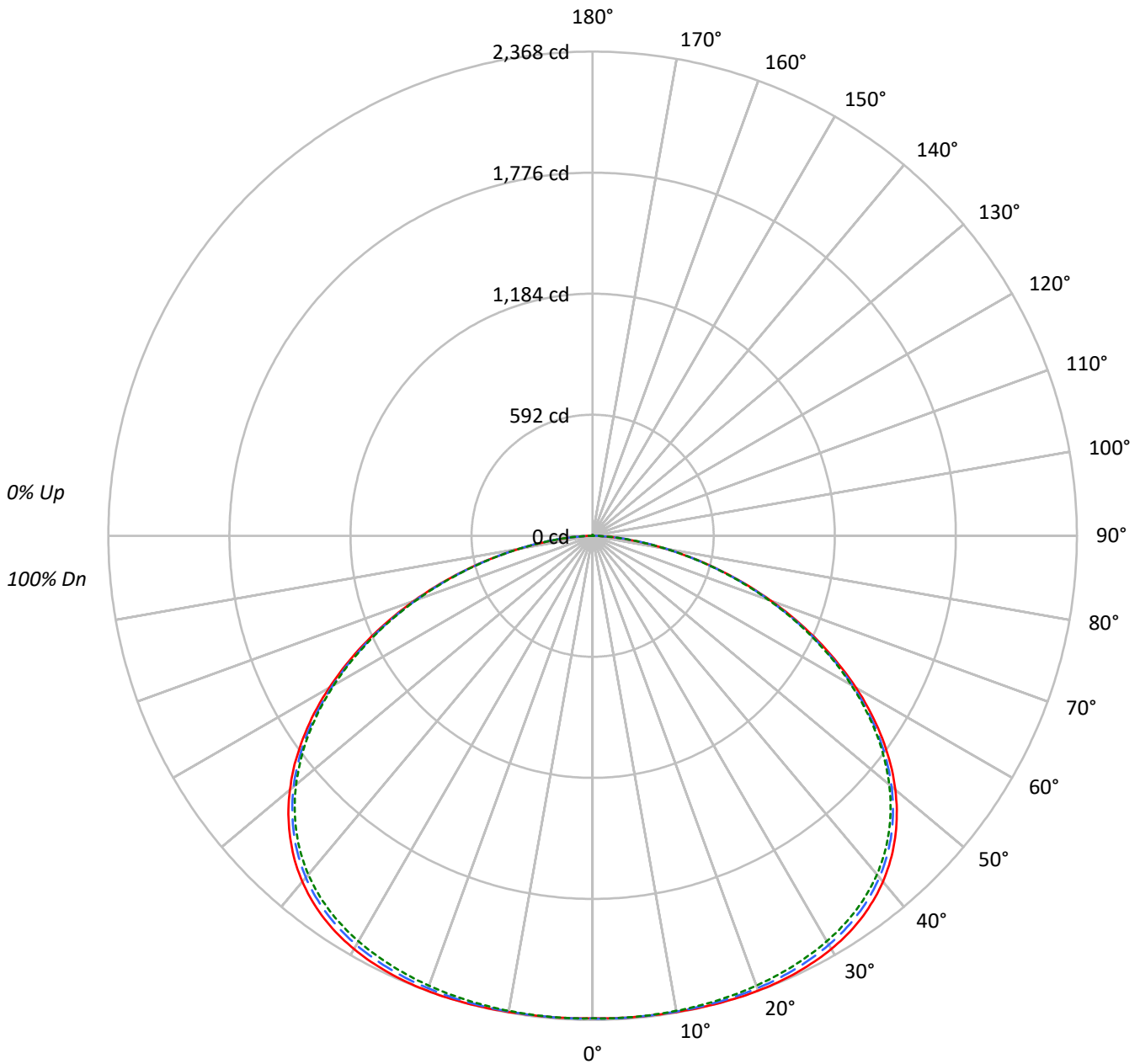
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8547.0 lumens  
Efficiency: N/A  
Efficacy: 134.8 lumens/watt  
Spacing Criteria (0/90/45): 1.48 / 1.45 / 1.57  
Luminous Opening: Rectangular (W 3.88' x L: 3.88' x H: 0')  
CIE Type: Direct

Input Watts (W): 63.4  
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

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CATALOG NUMBER: 44ID-80-L835-CFR2

### Luminous Intensity Polar Plot





TEST NUMBER: P#

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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 |    |    |    |    |    |   |  |   |
| 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°  | 1685 | 1685 | 1685 |
| 5°  | 1693 | 1693 | 1693 |
| 10° | 1714 | 1713 | 1710 |
| 15° | 1750 | 1745 | 1739 |
| 20° | 1798 | 1789 | 1779 |
| 25° | 1857 | 1843 | 1828 |
| 30° | 1924 | 1904 | 1887 |
| 35° | 1993 | 1970 | 1952 |
| 40° | 2058 | 2033 | 2016 |
| 45° | 2112 | 2086 | 2068 |
| 50° | 2146 | 2120 | 2102 |
| 55° | 2152 | 2126 | 2110 |
| 60° | 2124 | 2098 | 2085 |
| 65° | 2055 | 2032 | 2022 |
| 70° | 1937 | 1917 | 1907 |
| 75° | 1755 | 1744 | 1736 |
| 80° | 1493 | 1498 | 1482 |
| 85° | 1112 | 1139 | 1138 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 225.5  | 2.6       |
| 10°-20°   | 669.0  | 7.8       |
| 20°-30°   | 1081.5 | 12.7      |
| 30°-40°   | 1416.6 | 16.6      |
| 40°-50°   | 1593.4 | 18.6      |
| 50°-60°   | 1524.7 | 17.8      |
| 60°-70°   | 1189.1 | 13.9      |
| 70°-80°   | 670.1  | 7.8       |
| 80°-90°   | 165.8  | 1.9       |
| 90°-100°  | 0.6    | 0.0       |
| 100°-110° | 1.0    | 0.0       |
| 110°-120° | 1.7    | 0.0       |
| 120°-130° | 2.7    | 0.0       |
| 130°-140° | 2.1    | 0.0       |
| 140°-150° | 1.3    | 0.0       |
| 150°-160° | 1.0    | 0.0       |
| 160°-170° | 0.6    | 0.0       |
| 170°-180° | 0.2    | 0.0       |
| 0°-30°    | 1976.1 | 23.1      |
| 0°-40°    | 3392.6 | 39.7      |
| 0°-60°    | 6510.6 | 76.2      |
| 0°-90°    | 8535.7 | 99.9      |
| 90°-120°  | 3.3    | 0.0       |
| 90°-150°  | 9.4    | 0.1       |
| 90°-180°  | 11.0   | 0.1       |
| 0°-180°   | 8547.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 2360 | 2360  | 2360 | 2360  | 2360 |      |
| 5°   | 2363 | 2363  | 2363 | 2363  | 2362 | 226  |
| 15°  | 2368 | 2367  | 2362 | 2356  | 2354 | 671  |
| 25°  | 2358 | 2354  | 2340 | 2326  | 2321 | 1090 |
| 35°  | 2287 | 2279  | 2260 | 2246  | 2240 | 1432 |
| 45°  | 2092 | 2082  | 2066 | 2056  | 2048 | 1611 |
| 55°  | 1729 | 1720  | 1708 | 1701  | 1696 | 1542 |
| 65°  | 1216 | 1212  | 1203 | 1199  | 1197 | 1201 |
| 75°  | 636  | 636   | 632  | 631   | 629  | 674  |
| 85°  | 136  | 138   | 139  | 140   | 139  | 157  |
| 90°  | 1    | 1     | 1    | 1     | 1    | 6    |
| 95°  | 0    | 0     | 0    | 0     | 1    | 0    |
| 105° | 1    | 1     | 1    | 1     | 1    | 1    |
| 115° | 2    | 2     | 2    | 2     | 2    | 2    |
| 125° | 3    | 3     | 3    | 3     | 3    | 3    |
| 135° | 3    | 3     | 3    | 3     | 3    | 2    |
| 145° | 2    | 2     | 2    | 2     | 2    | 1    |
| 155° | 2    | 2     | 2    | 2     | 2    | 1    |
| 165° | 2    | 2     | 2    | 2     | 2    | 1    |
| 175° | 3    | 3     | 3    | 3     | 3    | 0    |
| 180° | 2    | 2     | 2    | 2     | 2    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 2360.4 | 2360.4 | 2360.4 | 2360.4 | 2360.4 |
| 0.5°  | 2359.9 | 2361.6 | 2362.2 | 2361.6 | 2360.4 |
| 1°    | 2360.4 | 2361.6 | 2362.2 | 2362.2 | 2361.0 |
| 1.5°  | 2361.0 | 2362.2 | 2362.2 | 2362.2 | 2361.6 |
| 2°    | 2361.0 | 2362.2 | 2362.2 | 2362.7 | 2361.6 |
| 2.5°  | 2361.6 | 2362.7 | 2362.7 | 2362.7 | 2361.6 |
| 3°    | 2362.2 | 2362.7 | 2362.7 | 2362.7 | 2362.2 |
| 3.5°  | 2362.2 | 2362.7 | 2362.7 | 2362.7 | 2362.2 |
| 4°    | 2362.7 | 2362.7 | 2362.7 | 2362.7 | 2362.2 |
| 4.5°  | 2362.7 | 2363.3 | 2362.7 | 2362.7 | 2362.2 |
| 5°    | 2362.7 | 2363.3 | 2362.7 | 2362.7 | 2362.2 |
| 5.5°  | 2362.7 | 2363.3 | 2362.7 | 2362.7 | 2362.2 |
| 6°    | 2363.3 | 2363.3 | 2362.7 | 2362.7 | 2361.6 |
| 6.5°  | 2363.3 | 2363.9 | 2363.3 | 2362.7 | 2361.6 |
| 7°    | 2363.3 | 2363.9 | 2362.7 | 2362.7 | 2361.6 |
| 7.5°  | 2363.3 | 2363.9 | 2362.7 | 2362.2 | 2361.0 |
| 8°    | 2363.9 | 2363.9 | 2363.3 | 2362.2 | 2361.0 |
| 8.5°  | 2363.9 | 2364.5 | 2362.7 | 2362.2 | 2360.4 |
| 9°    | 2364.5 | 2364.5 | 2363.3 | 2361.6 | 2360.4 |
| 9.5°  | 2364.5 | 2365.0 | 2362.7 | 2361.6 | 2359.9 |
| 10°   | 2365.0 | 2365.0 | 2362.7 | 2361.0 | 2359.3 |
| 10.5° | 2365.6 | 2365.6 | 2362.7 | 2361.0 | 2359.3 |
| 11°   | 2365.6 | 2365.6 | 2362.7 | 2360.4 | 2358.7 |
| 11.5° | 2366.2 | 2366.2 | 2362.7 | 2359.9 | 2358.1 |
| 12°   | 2366.2 | 2366.2 | 2362.7 | 2359.9 | 2357.6 |
| 12.5° | 2366.8 | 2366.2 | 2362.2 | 2359.3 | 2357.0 |
| 13°   | 2366.8 | 2366.2 | 2362.2 | 2358.7 | 2356.4 |
| 13.5° | 2367.3 | 2366.8 | 2362.2 | 2358.1 | 2355.8 |
| 14°   | 2367.3 | 2366.8 | 2362.2 | 2357.6 | 2354.7 |
| 14.5° | 2367.9 | 2366.8 | 2361.6 | 2357.0 | 2354.1 |
| 15°   | 2367.9 | 2367.3 | 2361.6 | 2356.4 | 2353.5 |
| 15.5° | 2368.5 | 2367.3 | 2361.0 | 2355.3 | 2352.4 |
| 16°   | 2367.9 | 2367.3 | 2360.4 | 2354.7 | 2351.2 |
| 16.5° | 2368.5 | 2367.3 | 2360.4 | 2353.5 | 2350.1 |
| 17°   | 2368.5 | 2366.8 | 2359.9 | 2352.4 | 2349.5 |
| 17.5° | 2368.5 | 2366.8 | 2358.7 | 2351.8 | 2348.3 |
| 18°   | 2368.5 | 2366.8 | 2358.1 | 2350.6 | 2346.6 |
| 18.5° | 2368.5 | 2366.2 | 2357.6 | 2349.5 | 2345.5 |
| 19°   | 2367.9 | 2366.2 | 2357.0 | 2348.3 | 2344.3 |
| 19.5° | 2367.9 | 2365.6 | 2355.8 | 2346.6 | 2342.6 |
| 20°   | 2367.3 | 2365.0 | 2354.7 | 2345.5 | 2341.4 |
| 20.5° | 2366.8 | 2364.5 | 2354.1 | 2344.3 | 2339.7 |
| 21°   | 2366.8 | 2363.9 | 2352.9 | 2342.6 | 2338.0 |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 22.5° | 2364.5 | 2361.0 | 2348.9 | 2337.4 | 2332.2 |
| 23°   | 2363.3 | 2359.9 | 2347.2 | 2335.7 | 2330.5 |
| 23.5° | 2362.2 | 2358.7 | 2345.5 | 2333.4 | 2328.2 |
| 24°   | 2361.0 | 2357.6 | 2343.7 | 2331.1 | 2325.9 |
| 24.5° | 2359.9 | 2355.8 | 2342.0 | 2328.8 | 2323.6 |
| 25°   | 2358.1 | 2354.1 | 2339.7 | 2326.5 | 2321.3 |
| 25.5° | 2356.4 | 2352.4 | 2337.4 | 2324.2 | 2318.4 |
| 26°   | 2354.7 | 2350.6 | 2335.1 | 2321.9 | 2316.1 |
| 26.5° | 2352.9 | 2348.3 | 2332.8 | 2319.0 | 2313.2 |
| 27°   | 2350.6 | 2346.0 | 2329.9 | 2316.1 | 2310.3 |
| 27.5° | 2348.3 | 2343.7 | 2327.0 | 2313.2 | 2307.5 |
| 28°   | 2346.0 | 2340.9 | 2324.2 | 2310.3 | 2304.6 |
| 28.5° | 2343.2 | 2338.0 | 2321.3 | 2306.9 | 2301.1 |
| 29°   | 2340.3 | 2335.1 | 2317.8 | 2303.4 | 2297.7 |
| 29.5° | 2337.4 | 2331.6 | 2314.4 | 2300.0 | 2293.7 |
| 30°   | 2334.0 | 2328.2 | 2310.3 | 2296.0 | 2289.6 |
| 30.5° | 2330.5 | 2324.7 | 2306.3 | 2291.9 | 2286.2 |
| 31°   | 2326.5 | 2320.7 | 2302.3 | 2287.9 | 2281.6 |
| 31.5° | 2323.0 | 2316.7 | 2297.7 | 2283.9 | 2277.5 |
| 32°   | 2318.4 | 2312.1 | 2293.7 | 2279.3 | 2272.9 |
| 32.5° | 2313.8 | 2307.5 | 2288.5 | 2274.1 | 2267.7 |
| 33°   | 2309.2 | 2302.3 | 2283.3 | 2269.5 | 2262.6 |
| 33.5° | 2304.0 | 2297.1 | 2278.1 | 2264.3 | 2257.4 |
| 34°   | 2298.3 | 2291.3 | 2272.3 | 2258.5 | 2252.2 |
| 34.5° | 2292.5 | 2285.6 | 2266.6 | 2252.8 | 2246.4 |
| 35°   | 2286.7 | 2279.3 | 2260.3 | 2246.4 | 2240.1 |
| 35.5° | 2280.4 | 2272.9 | 2253.9 | 2240.1 | 2233.8 |
| 36°   | 2274.1 | 2266.0 | 2247.0 | 2233.8 | 2226.9 |
| 36.5° | 2266.6 | 2259.1 | 2240.1 | 2226.9 | 2220.5 |
| 37°   | 2259.1 | 2251.6 | 2232.6 | 2219.4 | 2213.1 |
| 37.5° | 2251.6 | 2243.6 | 2225.1 | 2211.9 | 2205.0 |
| 38°   | 2243.6 | 2236.1 | 2217.1 | 2204.4 | 2197.5 |
| 38.5° | 2235.5 | 2227.4 | 2208.4 | 2195.8 | 2189.4 |
| 39°   | 2226.9 | 2218.2 | 2199.8 | 2187.7 | 2180.8 |
| 39.5° | 2217.7 | 2209.0 | 2191.2 | 2178.5 | 2172.2 |
| 40°   | 2207.9 | 2199.8 | 2181.4 | 2169.3 | 2163.0 |
| 40.5° | 2198.7 | 2190.0 | 2171.6 | 2160.1 | 2153.2 |
| 41°   | 2188.3 | 2179.7 | 2161.8 | 2149.7 | 2142.8 |
| 41.5° | 2177.4 | 2168.7 | 2150.9 | 2139.4 | 2132.4 |
| 42°   | 2166.4 | 2157.8 | 2139.9 | 2129.0 | 2121.5 |
| 42.5° | 2154.9 | 2146.3 | 2128.4 | 2117.5 | 2110.6 |
| 43°   | 2143.4 | 2134.2 | 2116.9 | 2106.0 | 2099.1 |
| 43.5° | 2131.3 | 2122.1 | 2104.8 | 2093.9 | 2087.0 |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 45°   | 2091.6 | 2082.4 | 2065.7 | 2055.9 | 2048.4 |
| 45.5° | 2077.8 | 2068.0 | 2051.8 | 2042.1 | 2035.2 |
| 46°   | 2063.4 | 2053.6 | 2037.5 | 2027.7 | 2020.8 |
| 46.5° | 2048.4 | 2038.6 | 2023.1 | 2013.3 | 2006.4 |
| 47°   | 2032.9 | 2023.6 | 2007.5 | 1998.9 | 1991.4 |
| 47.5° | 2017.3 | 2007.5 | 1992.0 | 1983.3 | 1975.9 |
| 48°   | 2001.8 | 1991.4 | 1976.4 | 1967.2 | 1959.7 |
| 48.5° | 1985.1 | 1975.3 | 1960.3 | 1951.7 | 1944.8 |
| 49°   | 1967.2 | 1958.0 | 1943.0 | 1933.8 | 1927.5 |
| 49.5° | 1949.9 | 1940.7 | 1925.8 | 1917.1 | 1910.2 |
| 50°   | 1932.1 | 1922.3 | 1908.5 | 1899.9 | 1893.0 |
| 50.5° | 1913.7 | 1903.9 | 1890.1 | 1881.4 | 1875.1 |
| 51°   | 1895.3 | 1885.5 | 1871.7 | 1863.0 | 1856.1 |
| 51.5° | 1875.7 | 1865.9 | 1852.1 | 1844.0 | 1837.7 |
| 52°   | 1856.1 | 1846.3 | 1832.5 | 1825.0 | 1818.7 |
| 52.5° | 1836.5 | 1826.7 | 1812.9 | 1804.9 | 1799.1 |
| 53°   | 1815.2 | 1806.0 | 1793.4 | 1785.9 | 1779.5 |
| 53.5° | 1793.9 | 1784.7 | 1772.1 | 1764.6 | 1758.8 |
| 54°   | 1772.6 | 1763.4 | 1750.8 | 1743.3 | 1738.1 |
| 54.5° | 1751.9 | 1742.1 | 1730.0 | 1722.5 | 1717.4 |
| 55°   | 1729.4 | 1720.2 | 1708.1 | 1700.7 | 1695.5 |
| 55.5° | 1707.0 | 1697.8 | 1685.7 | 1678.2 | 1673.6 |
| 56°   | 1683.4 | 1674.8 | 1662.7 | 1656.3 | 1651.7 |
| 56.5° | 1659.8 | 1651.7 | 1639.6 | 1633.3 | 1628.7 |
| 57°   | 1636.8 | 1628.1 | 1616.6 | 1610.9 | 1606.2 |
| 57.5° | 1613.7 | 1604.5 | 1593.0 | 1587.2 | 1582.6 |
| 58°   | 1588.4 | 1579.8 | 1568.8 | 1563.1 | 1559.0 |
| 58.5° | 1563.6 | 1555.6 | 1544.1 | 1538.9 | 1534.9 |
| 59°   | 1538.9 | 1530.8 | 1519.9 | 1514.7 | 1510.7 |
| 59.5° | 1513.0 | 1505.5 | 1494.6 | 1489.4 | 1485.3 |
| 60°   | 1487.6 | 1479.6 | 1469.2 | 1464.6 | 1460.6 |
| 60.5° | 1461.7 | 1454.8 | 1443.9 | 1439.3 | 1435.3 |
| 61°   | 1435.3 | 1428.3 | 1418.0 | 1413.4 | 1409.4 |
| 61.5° | 1408.2 | 1402.4 | 1392.1 | 1387.5 | 1384.0 |
| 62°   | 1381.7 | 1376.0 | 1365.6 | 1361.6 | 1358.1 |
| 62.5° | 1354.7 | 1348.9 | 1338.5 | 1334.5 | 1331.1 |
| 63°   | 1327.6 | 1321.8 | 1312.1 | 1308.0 | 1304.6 |
| 63.5° | 1300.0 | 1294.2 | 1285.0 | 1281.0 | 1277.5 |
| 64°   | 1272.3 | 1266.6 | 1256.8 | 1253.9 | 1249.9 |
| 64.5° | 1244.7 | 1238.9 | 1229.2 | 1226.3 | 1222.8 |
| 65°   | 1216.5 | 1211.9 | 1202.7 | 1199.2 | 1196.9 |
| 65.5° | 1188.9 | 1183.1 | 1174.5 | 1171.6 | 1168.1 |
| 66°   | 1159.5 | 1154.9 | 1146.2 | 1143.4 | 1141.1 |





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**CANDELA DISTRIBUTION (continued):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 67.5° | 1074.3 | 1069.1 | 1061.6 | 1058.7 | 1055.9 |
| 68°   | 1044.9 | 1040.3 | 1032.8 | 1030.5 | 1027.7 |
| 68.5° | 1015.6 | 1011.0 | 1003.5 | 1001.7 | 1000.0 |
| 69°   | 986.2  | 981.6  | 975.3  | 973.5  | 971.2  |
| 69.5° | 957.4  | 952.8  | 947.1  | 945.3  | 942.4  |
| 70°   | 928.1  | 924.0  | 918.3  | 916.5  | 913.7  |
| 70.5° | 898.7  | 894.7  | 889.5  | 887.8  | 884.9  |
| 71°   | 869.3  | 865.9  | 861.3  | 859.0  | 856.1  |
| 71.5° | 840.5  | 837.1  | 831.9  | 830.2  | 827.9  |
| 72°   | 811.2  | 808.3  | 803.1  | 802.0  | 799.1  |
| 72.5° | 781.8  | 779.5  | 774.3  | 773.2  | 770.9  |
| 73°   | 752.5  | 750.2  | 745.0  | 743.8  | 742.1  |
| 73.5° | 723.7  | 721.4  | 716.8  | 715.0  | 713.3  |
| 74°   | 694.9  | 693.2  | 688.6  | 687.4  | 685.1  |
| 74.5° | 665.5  | 664.4  | 660.3  | 658.6  | 656.9  |
| 75°   | 636.2  | 636.2  | 632.1  | 631.0  | 629.3  |
| 75.5° | 608.0  | 608.0  | 603.9  | 602.8  | 601.0  |
| 76°   | 579.7  | 579.7  | 575.7  | 574.6  | 572.3  |
| 76.5° | 551.2  | 551.5  | 548.1  | 546.9  | 545.0  |
| 77°   | 524.0  | 524.2  | 521.1  | 519.6  | 517.7  |
| 77.5° | 494.8  | 496.2  | 493.6  | 492.2  | 490.3  |
| 78°   | 467.5  | 469.3  | 466.7  | 465.6  | 464.0  |
| 78.5° | 441.9  | 443.0  | 441.3  | 440.0  | 437.7  |
| 79°   | 415.0  | 415.8  | 414.7  | 413.6  | 411.4  |
| 79.5° | 388.5  | 389.9  | 389.2  | 388.1  | 385.6  |
| 80°   | 363.1  | 364.1  | 364.3  | 362.8  | 360.4  |
| 80.5° | 336.4  | 338.5  | 338.9  | 337.3  | 336.1  |
| 81°   | 311.7  | 313.7  | 314.3  | 313.4  | 311.7  |
| 81.5° | 287.4  | 289.8  | 290.3  | 289.8  | 287.7  |
| 82°   | 263.0  | 265.9  | 266.8  | 266.4  | 264.1  |
| 82.5° | 239.8  | 243.0  | 243.9  | 243.6  | 241.5  |
| 83°   | 217.2  | 220.7  | 221.6  | 221.9  | 219.9  |
| 83.5° | 195.4  | 198.7  | 199.8  | 200.2  | 198.0  |
| 84°   | 174.4  | 177.4  | 178.8  | 179.4  | 177.6  |
| 84.5° | 154.5  | 156.9  | 158.6  | 159.4  | 158.5  |
| 85°   | 135.8  | 137.5  | 139.0  | 140.1  | 138.9  |
| 85.5° | 117.6  | 118.9  | 120.1  | 121.7  | 120.7  |
| 86°   | 100.6  | 102.0  | 102.8  | 104.1  | 104.1  |
| 86.5° | 84.5   | 85.1   | 85.8   | 87.3   | 87.3   |
| 87°   | 69.1   | 69.1   | 69.4   | 71.3   | 71.3   |
| 87.5° | 53.3   | 53.8   | 54.0   | 55.7   | 56.2   |
| 88°   | 37.6   | 38.9   | 39.3   | 40.8   | 40.7   |
| 88.5° | 26.6   | 26.6   | 26.5   | 28.1   | 28.4   |



TEST NUMBER: P#

CATALOG NUMBER: 44ID-80-L835-CFR2

**CANDELA DISTRIBUTION (continued):**

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



TEST NUMBER: P#

CATALOG NUMBER: 44ID-80-L835-CFR2

**CANDELA DISTRIBUTION (continued):**

|        | 0°  | 22.5° | 45° | 67.5° | 90° |
|--------|-----|-------|-----|-------|-----|
| 112.5° | 1.4 | 1.4   | 1.5 | 1.4   | 1.3 |
| 113°   | 1.6 | 1.4   | 1.4 | 1.4   | 1.4 |
| 113.5° | 1.6 | 1.6   | 1.6 | 1.6   | 1.6 |
| 114°   | 1.6 | 1.6   | 1.7 | 1.7   | 1.6 |
| 114.5° | 1.7 | 1.7   | 1.7 | 1.7   | 1.6 |
| 115°   | 1.7 | 1.7   | 1.7 | 1.7   | 1.7 |
| 115.5° | 1.9 | 1.7   | 1.8 | 1.8   | 1.7 |
| 116°   | 1.8 | 1.9   | 1.9 | 1.8   | 1.8 |
| 116.5° | 2.0 | 2.0   | 2.0 | 2.0   | 1.9 |
| 117°   | 2.1 | 2.1   | 2.1 | 2.1   | 1.8 |
| 117.5° | 2.2 | 2.1   | 2.1 | 2.1   | 2.0 |
| 118°   | 2.2 | 2.1   | 2.2 | 2.1   | 2.0 |
| 118.5° | 2.4 | 2.2   | 2.2 | 2.2   | 2.1 |
| 119°   | 2.4 | 2.4   | 2.4 | 2.2   | 2.2 |
| 119.5° | 2.4 | 2.4   | 2.4 | 2.4   | 2.3 |
| 120°   | 2.5 | 2.5   | 2.5 | 2.4   | 2.5 |
| 120.5° | 2.6 | 2.5   | 2.6 | 2.5   | 2.5 |
| 121°   | 2.6 | 2.6   | 2.6 | 2.6   | 2.5 |
| 121.5° | 2.9 | 2.8   | 2.7 | 2.6   | 2.6 |
| 122°   | 2.7 | 2.9   | 2.8 | 2.7   | 2.8 |
| 122.5° | 2.9 | 2.9   | 2.8 | 2.8   | 2.7 |
| 123°   | 3.0 | 3.0   | 2.9 | 2.9   | 2.8 |
| 123.5° | 3.0 | 3.1   | 2.9 | 2.8   | 2.9 |
| 124°   | 3.1 | 3.1   | 3.1 | 2.9   | 2.9 |
| 124.5° | 3.2 | 3.1   | 3.1 | 3.0   | 3.0 |
| 125°   | 3.3 | 3.2   | 3.2 | 3.1   | 3.1 |
| 125.5° | 3.3 | 3.3   | 3.2 | 3.1   | 3.2 |
| 126°   | 3.3 | 3.2   | 3.2 | 3.2   | 3.1 |
| 126.5° | 3.2 | 3.3   | 3.3 | 3.2   | 3.2 |
| 127°   | 3.3 | 3.3   | 3.2 | 3.2   | 3.1 |
| 127.5° | 3.5 | 3.4   | 3.3 | 3.2   | 3.1 |
| 128°   | 3.5 | 3.3   | 3.3 | 3.2   | 3.2 |
| 128.5° | 3.3 | 3.3   | 3.2 | 3.1   | 3.2 |
| 129°   | 3.3 | 3.3   | 3.2 | 3.2   | 3.1 |
| 129.5° | 3.2 | 3.3   | 3.2 | 3.2   | 3.2 |
| 130°   | 3.2 | 3.3   | 3.2 | 3.1   | 3.1 |
| 130.5° | 3.3 | 3.2   | 3.2 | 2.9   | 3.1 |
| 131°   | 3.2 | 3.2   | 3.2 | 3.0   | 3.1 |
| 131.5° | 3.2 | 3.1   | 3.0 | 2.9   | 3.0 |
| 132°   | 3.2 | 3.1   | 3.1 | 2.9   | 2.9 |
| 132.5° | 3.2 | 3.1   | 3.0 | 2.9   | 3.0 |
| 133°   | 3.1 | 2.9   | 2.9 | 2.8   | 2.9 |
| 133.5° | 3.1 | 2.9   | 2.8 | 2.7   | 2.9 |



TEST NUMBER: P#

CATALOG NUMBER: 44ID-80-L835-CFR2

**CANDELA DISTRIBUTION (continued):**

|        | 0°  | 22.5° | 45° | 67.5° | 90° |
|--------|-----|-------|-----|-------|-----|
| 135°   | 3.0 | 2.8   | 2.7 | 2.6   | 2.9 |
| 135.5° | 2.8 | 2.9   | 2.7 | 2.6   | 2.8 |
| 136°   | 2.8 | 2.7   | 2.6 | 2.5   | 2.8 |
| 136.5° | 2.8 | 2.7   | 2.6 | 2.5   | 2.7 |
| 137°   | 2.8 | 2.6   | 2.6 | 2.5   | 2.6 |
| 137.5° | 2.7 | 2.6   | 2.5 | 2.4   | 2.5 |
| 138°   | 2.6 | 2.5   | 2.4 | 2.4   | 2.5 |
| 138.5° | 2.7 | 2.5   | 2.5 | 2.3   | 2.5 |
| 139°   | 2.4 | 2.5   | 2.4 | 2.2   | 2.5 |
| 139.5° | 2.5 | 2.4   | 2.3 | 2.2   | 2.5 |
| 140°   | 2.5 | 2.3   | 2.4 | 2.2   | 2.3 |
| 140.5° | 2.5 | 2.3   | 2.3 | 2.2   | 2.3 |
| 141°   | 2.4 | 2.3   | 2.2 | 2.1   | 2.2 |
| 141.5° | 2.2 | 2.3   | 2.3 | 2.1   | 2.2 |
| 142°   | 2.1 | 2.1   | 2.2 | 2.1   | 2.0 |
| 142.5° | 2.1 | 2.2   | 2.2 | 2.1   | 2.0 |
| 143°   | 2.2 | 2.2   | 2.2 | 2.1   | 2.0 |
| 143.5° | 2.2 | 2.2   | 2.2 | 2.0   | 2.0 |
| 144°   | 2.2 | 2.1   | 2.2 | 2.0   | 2.1 |
| 144.5° | 2.1 | 2.1   | 2.1 | 2.0   | 2.1 |
| 145°   | 2.2 | 2.1   | 2.1 | 1.9   | 2.1 |
| 145.5° | 2.1 | 2.0   | 2.1 | 1.9   | 2.2 |
| 146°   | 2.1 | 2.0   | 2.0 | 1.9   | 2.1 |
| 146.5° | 2.2 | 2.0   | 2.0 | 1.9   | 2.1 |
| 147°   | 2.1 | 2.0   | 1.9 | 2.0   | 2.0 |
| 147.5° | 2.1 | 2.0   | 1.9 | 2.0   | 2.1 |
| 148°   | 2.1 | 2.0   | 2.0 | 1.9   | 2.1 |
| 148.5° | 2.2 | 2.1   | 2.0 | 1.9   | 2.1 |
| 149°   | 2.1 | 2.0   | 2.0 | 1.9   | 2.1 |
| 149.5° | 2.2 | 2.0   | 2.0 | 1.9   | 2.2 |
| 150°   | 2.2 | 2.1   | 2.0 | 1.9   | 2.1 |
| 150.5° | 2.1 | 2.0   | 2.0 | 2.0   | 2.1 |
| 151°   | 2.2 | 2.0   | 1.9 | 2.0   | 2.2 |
| 151.5° | 2.2 | 2.1   | 1.9 | 2.0   | 2.2 |
| 152°   | 2.2 | 2.1   | 2.0 | 2.1   | 2.1 |
| 152.5° | 2.2 | 2.1   | 2.0 | 2.0   | 2.2 |
| 153°   | 2.2 | 2.1   | 2.0 | 2.1   | 2.3 |
| 153.5° | 2.4 | 2.1   | 2.0 | 2.1   | 2.2 |
| 154°   | 2.2 | 2.1   | 2.1 | 2.1   | 2.2 |
| 154.5° | 2.2 | 2.1   | 2.1 | 2.2   | 2.3 |
| 155°   | 2.1 | 2.1   | 2.1 | 2.2   | 2.4 |
| 155.5° | 2.2 | 2.1   | 2.1 | 2.1   | 2.3 |
| 156°   | 2.1 | 2.1   | 2.1 | 2.1   | 2.3 |



TEST NUMBER: P#

CATALOG NUMBER: 44ID-80-L835-CFR2

**CANDELA DISTRIBUTION (continued):**

|        | 0°  | 22.5° | 45° | 67.5° | 90° |
|--------|-----|-------|-----|-------|-----|
| 157.5° | 2.1 | 2.0   | 2.1 | 2.2   | 2.2 |
| 158°   | 2.3 | 2.1   | 2.1 | 2.1   | 2.3 |
| 158.5° | 2.2 | 2.1   | 2.0 | 2.1   | 2.2 |
| 159°   | 2.2 | 2.1   | 2.1 | 2.1   | 2.4 |
| 159.5° | 2.2 | 2.1   | 2.1 | 2.1   | 2.4 |
| 160°   | 2.2 | 2.1   | 2.0 | 2.1   | 2.3 |
| 160.5° | 2.1 | 2.1   | 2.1 | 2.2   | 2.3 |
| 161°   | 2.1 | 2.1   | 2.1 | 2.2   | 2.3 |
| 161.5° | 2.2 | 2.1   | 2.1 | 2.1   | 2.2 |
| 162°   | 2.1 | 2.1   | 2.1 | 2.2   | 2.2 |
| 162.5° | 2.2 | 2.2   | 2.1 | 2.1   | 2.2 |
| 163°   | 2.2 | 2.1   | 2.2 | 2.2   | 2.2 |
| 163.5° | 2.2 | 2.1   | 2.2 | 2.2   | 2.4 |
| 164°   | 2.1 | 2.2   | 2.1 | 2.3   | 2.3 |
| 164.5° | 2.1 | 2.2   | 2.2 | 2.3   | 2.4 |
| 165°   | 2.1 | 2.1   | 2.1 | 2.2   | 2.3 |
| 165.5° | 2.0 | 2.1   | 2.1 | 2.4   | 2.3 |
| 166°   | 2.2 | 2.2   | 2.1 | 2.3   | 2.2 |
| 166.5° | 2.2 | 2.1   | 2.1 | 2.4   | 2.1 |
| 167°   | 2.1 | 2.3   | 2.1 | 2.4   | 2.4 |
| 167.5° | 2.2 | 2.3   | 2.2 | 2.5   | 2.4 |
| 168°   | 2.2 | 2.2   | 2.1 | 2.4   | 2.3 |
| 168.5° | 2.2 | 2.4   | 2.2 | 2.6   | 2.4 |
| 169°   | 2.4 | 2.3   | 2.1 | 2.6   | 2.4 |
| 169.5° | 2.3 | 2.3   | 2.2 | 2.5   | 2.4 |
| 170°   | 2.4 | 2.3   | 2.2 | 2.6   | 2.4 |
| 170.5° | 2.4 | 2.4   | 2.2 | 2.6   | 2.5 |
| 171°   | 2.4 | 2.4   | 2.4 | 2.6   | 2.5 |
| 171.5° | 2.3 | 2.4   | 2.4 | 2.6   | 2.4 |
| 172°   | 2.3 | 2.4   | 2.4 | 2.6   | 2.5 |
| 172.5° | 2.4 | 2.4   | 2.5 | 2.6   | 2.5 |
| 173°   | 2.3 | 2.3   | 2.5 | 2.6   | 2.5 |
| 173.5° | 2.5 | 2.4   | 2.5 | 2.6   | 2.6 |
| 174°   | 2.5 | 2.5   | 2.7 | 2.6   | 2.5 |
| 174.5° | 2.5 | 2.6   | 2.6 | 2.8   | 2.6 |
| 175°   | 2.7 | 2.6   | 2.7 | 2.8   | 2.6 |
| 175.5° | 2.7 | 2.6   | 2.8 | 2.7   | 2.7 |
| 176°   | 2.8 | 2.8   | 2.7 | 2.6   | 2.6 |
| 176.5° | 2.9 | 2.7   | 2.8 | 2.5   | 2.6 |
| 177°   | 2.8 | 2.7   | 2.6 | 2.5   | 2.6 |
| 177.5° | 2.8 | 2.7   | 2.5 | 2.5   | 2.7 |
| 178°   | 2.6 | 2.6   | 2.5 | 2.5   | 2.5 |
| 178.5° | 2.6 | 2.5   | 2.4 | 2.4   | 2.4 |



TEST NUMBER: P#

CATALOG NUMBER: 44ID-80-L835-CFR2

**CANDELA DISTRIBUTION (continued):**

|      | 0°  | 22.5° | 45° | 67.5° | 90° |
|------|-----|-------|-----|-------|-----|
| 180° | 2.2 | 2.2   | 2.2 | 2.2   | 2.2 |



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







|       |        |        |        |        |        |
|-------|--------|--------|--------|--------|--------|
| 21.5° | 2366.2 | 2363.3 | 2351.8 | 2340.9 | 2336.3 |
| 22°   | 2365.0 | 2362.2 | 2350.1 | 2339.1 | 2334.5 |



|       |        |        |        |        |        |
|-------|--------|--------|--------|--------|--------|
| 44°   | 2118.1 | 2109.4 | 2092.1 | 2081.8 | 2074.9 |
| 44.5° | 2104.8 | 2095.6 | 2079.5 | 2068.5 | 2061.6 |



|       |        |        |        |        |        |
|-------|--------|--------|--------|--------|--------|
| 66.5° | 1131.3 | 1126.7 | 1118.0 | 1115.2 | 1112.3 |
| 67°   | 1103.1 | 1097.9 | 1089.8 | 1087.0 | 1084.6 |



|       |      |      |      |      |      |
|-------|------|------|------|------|------|
| 89°   | 16.8 | 16.5 | 16.4 | 17.2 | 17.4 |
| 89.5° | 7.4  | 7.5  | 7.4  | 7.9  | 7.8  |



|        |     |     |     |     |     |
|--------|-----|-----|-----|-----|-----|
| 111.5° | 1.4 | 1.3 | 1.3 | 1.3 | 1.3 |
| 112°   | 1.4 | 1.3 | 1.3 | 1.3 | 1.4 |





|        |     |     |     |     |     |
|--------|-----|-----|-----|-----|-----|
| 134°   | 2.9 | 2.9 | 2.8 | 2.8 | 2.9 |
| 134.5° | 3.0 | 2.8 | 2.8 | 2.6 | 2.8 |



|        |     |     |     |     |     |
|--------|-----|-----|-----|-----|-----|
| 156.5° | 2.2 | 2.1 | 2.1 | 2.2 | 2.2 |
| 157°   | 2.2 | 2.1 | 2.1 | 2.1 | 2.2 |



|        |     |     |     |     |     |
|--------|-----|-----|-----|-----|-----|
| 179°   | 2.5 | 2.4 | 2.3 | 2.4 | 2.5 |
| 179.5° | 2.2 | 2.3 | 2.2 | 2.2 | 2.4 |



(END OF REPORT)