

Scaled data based on original data using  
LM-66-11 Electrical and Photometric Measurements of Single-Ended Compact  
Fluorescent Lamps

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: SHAPER

Report Number: 18648A

Luminaire Tested: **650-CF2/26**

Issue Date: 3/3/2020

**Test Information**

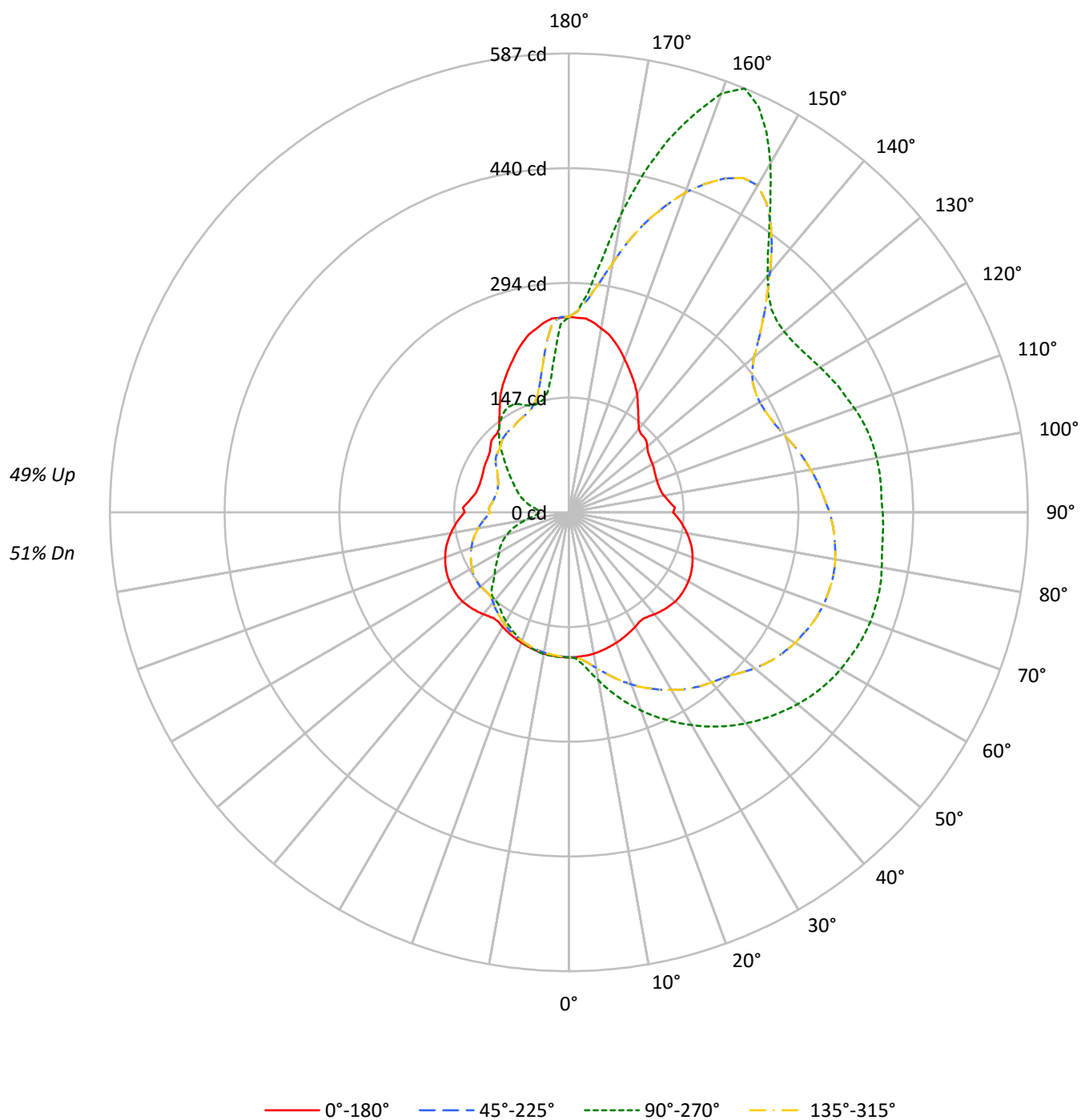
Test Method: LM-66-11  
Report Number: 18648A  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: SHAPER  
Catalog Number: 650-CF2/26  
Description: FLUORESCENT WALL MOUNT LUMINAIRE WITH WHITE INTERIOR AND WHITE FLAT  
PLASTIC LENS  
Light Source: TWO 26 WATT CPFL LAMPS. LUMEN RATING = 3600 LMS.  
  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 3600 (1 lamp)  
Luminaire Lumens: 2695.8 lumens  
Efficiency: 74.9%  
Efficacy: -  
Spacing Criteria (0/90/45): 1.38 / 1.96 / 1.96  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: General Diffuse  
  
Input Watts (W): 0  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT

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### Luminous Intensity Polar Plot



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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |    |    |    |    |    |    |    |    |  |    |    |    |  |    |    |    |  |    |    |    |
|-----|----|----|----|----|----|----|----|----|--|----|----|----|--|----|----|----|--|----|----|----|
| RF  | 20 |    |    |    | 20 |    |    |    |  | 20 |    |    |  |    | 20 |    |  |    |    | 20 |
| RC  | 80 |    |    |    | 70 |    |    |    |  | 50 |    |    |  |    | 30 |    |  |    |    | 0  |
| RW  | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 |  | 50 | 30 | 10 |  | 50 | 30 | 10 |  | 50 | 30 | 10 |
| RCR |    |    |    |    |    |    |    |    |  |    |    |    |  |    |    |    |  |    |    |    |
| 0   | 80 | 80 | 80 | 80 | 74 | 74 | 74 | 74 |  | 63 | 63 | 63 |  | 52 | 52 | 52 |  | 42 | 42 | 42 |
| 1   | 70 | 66 | 61 | 58 | 64 | 60 | 57 | 53 |  | 50 | 47 | 45 |  | 41 | 39 | 37 |  | 32 | 31 | 29 |
| 2   | 63 | 55 | 50 | 45 | 57 | 51 | 46 | 41 |  | 42 | 38 | 35 |  | 34 | 31 | 28 |  | 27 | 25 | 22 |
| 3   | 56 | 48 | 41 | 36 | 51 | 44 | 38 | 33 |  | 36 | 32 | 28 |  | 29 | 26 | 23 |  | 23 | 20 | 18 |
| 4   | 51 | 42 | 35 | 29 | 46 | 38 | 32 | 27 |  | 32 | 27 | 23 |  | 25 | 22 | 19 |  | 20 | 17 | 15 |
| 5   | 47 | 37 | 30 | 25 | 42 | 34 | 27 | 23 |  | 28 | 23 | 19 |  | 23 | 19 | 16 |  | 17 | 15 | 12 |
| 6   | 43 | 33 | 26 | 21 | 39 | 30 | 24 | 19 |  | 25 | 20 | 16 |  | 20 | 16 | 13 |  | 16 | 13 | 10 |
| 7   | 39 | 29 | 23 | 18 | 36 | 27 | 21 | 17 |  | 22 | 18 | 14 |  | 18 | 14 | 11 |  | 14 | 11 | 9  |
| 8   | 36 | 26 | 20 | 16 | 33 | 24 | 19 | 15 |  | 20 | 16 | 12 |  | 16 | 13 | 10 |  | 13 | 10 | 8  |
| 9   | 34 | 24 | 18 | 14 | 31 | 22 | 17 | 13 |  | 18 | 14 | 11 |  | 15 | 11 | 9  |  | 12 | 9  | 7  |
| 10  | 32 | 22 | 16 | 12 | 29 | 20 | 15 | 11 |  | 17 | 13 | 10 |  | 14 | 10 | 8  |  | 11 | 8  | 6  |

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

|     | 0°                                                           | 90° | 180° | 270° |
|-----|--------------------------------------------------------------|-----|------|------|
| 0°  | Luminaire represents a point source (luminous area is zero). |     |      |      |
| 5°  | No luminance values can be calculated.                       |     |      |      |
| 10° |                                                              |     |      |      |
| 15° |                                                              |     |      |      |
| 20° |                                                              |     |      |      |
| 25° |                                                              |     |      |      |
| 30° |                                                              |     |      |      |
| 35° |                                                              |     |      |      |
| 40° |                                                              |     |      |      |
| 45° |                                                              |     |      |      |
| 50° |                                                              |     |      |      |
| 55° |                                                              |     |      |      |
| 60° |                                                              |     |      |      |
| 65° |                                                              |     |      |      |
| 70° |                                                              |     |      |      |
| 75° |                                                              |     |      |      |
| 80° |                                                              |     |      |      |
| 85° |                                                              |     |      |      |

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture | % Lamp |
|-----------|--------|-----------|--------|
| 0°-10°    | 18.0   | 0.7       | 0.5    |
| 10°-20°   | 56.1   | 2.1       | 1.6    |
| 20°-30°   | 95.4   | 3.5       | 2.7    |
| 30°-40°   | 132.8  | 4.9       | 3.7    |
| 40°-50°   | 169.7  | 6.3       | 4.7    |
| 50°-60°   | 202.4  | 7.5       | 5.6    |
| 60°-70°   | 225.6  | 8.4       | 6.3    |
| 70°-80°   | 234.6  | 8.7       | 6.5    |
| 80°-90°   | 227.6  | 8.4       | 6.3    |
| 90°-100°  | 213.8  | 7.9       | 5.9    |
| 100°-110° | 198.9  | 7.4       | 5.5    |
| 110°-120° | 185.2  | 6.9       | 5.1    |
| 120°-130° | 176.0  | 6.5       | 4.9    |
| 130°-140° | 167.9  | 6.2       | 4.7    |
| 140°-150° | 158.2  | 5.9       | 4.4    |
| 150°-160° | 131.8  | 4.9       | 3.7    |
| 160°-170° | 77.4   | 2.9       | 2.2    |
| 170°-180° | 24.2   | 0.9       | 0.7    |
| 0°-30°    | 169.5  | 6.3       | 4.7    |
| 0°-40°    | 302.4  | 11.2      | 8.4    |
| 0°-60°    | 674.5  | 25.0      | 18.7   |
| 0°-90°    | 1362.4 | 50.5      | 37.8   |
| 90°-120°  | 597.9  | 22.2      | 16.6   |
| 90°-150°  | 1100.0 | 40.8      | 30.6   |
| 90°-180°  | 1333.0 | 49.4      | 37.0   |
| 0°-180°   | 2695.8 | 100.0     | 74.9   |

**CANDELA DISTRIBUTION:**

|      | 0°  | 90° | 180° | 270° | 360° | Flux |
|------|-----|-----|------|------|------|------|
| 0°   | 186 | 186 | 186  | 186  | 186  |      |
| 5°   | 185 | 194 | 185  | 185  | 185  | 18   |
| 15°  | 181 | 245 | 181  | 180  | 181  | 51   |
| 25°  | 174 | 293 | 174  | 168  | 174  | 80   |
| 35°  | 166 | 334 | 166  | 152  | 166  | 105  |
| 45°  | 174 | 368 | 174  | 140  | 174  | 135  |
| 55°  | 178 | 393 | 178  | 113  | 178  | 159  |
| 65°  | 173 | 407 | 173  | 95   | 173  | 172  |
| 75°  | 162 | 410 | 162  | 72   | 162  | 171  |
| 85°  | 144 | 403 | 144  | 43   | 144  | 119  |
| 90°  | 133 | 401 | 133  | 38   | 133  | 74   |
| 95°  | 131 | 401 | 131  | 41   | 131  | 105  |
| 105° | 120 | 396 | 120  | 59   | 120  | 128  |
| 115° | 121 | 380 | 121  | 76   | 121  | 120  |
| 125° | 126 | 363 | 126  | 96   | 126  | 113  |
| 135° | 136 | 367 | 136  | 125  | 136  | 105  |
| 145° | 155 | 447 | 155  | 150  | 155  | 97   |
| 155° | 191 | 573 | 191  | 153  | 191  | 88   |
| 165° | 226 | 494 | 226  | 145  | 226  | 63   |
| 175° | 249 | 281 | 249  | 204  | 249  | 23   |
| 180° | 250 | 250 | 250  | 250  | 250  |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   | 112.5° | 135°  | 157.5° | 180°  | 202.5° | 225°  |
|--------|-------|-------|-------|-------|-------|--------|-------|--------|-------|--------|-------|
| 0°     | 185.5 | 185.5 | 185.5 | 185.5 | 185.5 | 185.5  | 185.5 | 185.5  | 185.5 | 185.5  | 185.5 |
| 2.5°   | 185.4 | 185.8 | 185.8 | 186.7 | 186.7 | 186.7  | 185.8 | 185.8  | 185.4 | 184.8  | 184.8 |
| 5°     | 184.8 | 185.8 | 188.9 | 192.0 | 194.4 | 192.0  | 188.9 | 185.8  | 184.8 | 184.5  | 183.9 |
| 7.5°   | 184.5 | 187.2 | 194.7 | 201.9 | 205.5 | 201.9  | 194.7 | 187.2  | 184.5 | 183.6  | 183.2 |
| 10°    | 183.6 | 188.9 | 202.4 | 213.6 | 218.3 | 213.6  | 202.4 | 188.9  | 183.6 | 182.3  | 182.3 |
| 12.5°  | 182.3 | 190.7 | 209.9 | 225.1 | 231.8 | 225.1  | 209.9 | 190.7  | 182.3 | 181.4  | 180.8 |
| 15°    | 180.8 | 193.4 | 218.3 | 237.1 | 244.8 | 237.1  | 218.3 | 193.4  | 180.8 | 179.5  | 179.2 |
| 17.5°  | 179.2 | 195.6 | 226.4 | 248.7 | 257.6 | 248.7  | 226.4 | 195.6  | 179.2 | 178.3  | 177.3 |
| 20°    | 177.5 | 198.4 | 234.4 | 260.0 | 269.7 | 260.0  | 234.4 | 198.4  | 177.5 | 176.4  | 175.2 |
| 22.5°  | 175.6 | 200.9 | 242.1 | 270.2 | 281.8 | 270.2  | 242.1 | 200.9  | 175.6 | 174.6  | 172.8 |
| 25°    | 173.5 | 203.1 | 248.7 | 279.9 | 292.6 | 279.9  | 248.7 | 203.1  | 173.5 | 172.4  | 170.6 |
| 27.5°  | 171.5 | 205.9 | 256.0 | 289.5 | 303.7 | 289.5  | 256.0 | 205.9  | 171.5 | 170.6  | 168.0 |
| 30°    | 169.3 | 208.1 | 262.2 | 299.1 | 314.3 | 299.1  | 262.2 | 208.1  | 169.3 | 168.7  | 164.7 |
| 32.5°  | 166.8 | 210.4 | 268.8 | 308.7 | 324.7 | 308.7  | 268.8 | 210.4  | 166.8 | 165.6  | 161.6 |
| 35°    | 165.9 | 212.1 | 274.3 | 317.1 | 334.4 | 317.1  | 274.3 | 212.1  | 165.9 | 163.1  | 158.1 |
| 37.5°  | 167.7 | 214.3 | 279.6 | 325.1 | 343.8 | 325.1  | 279.6 | 214.3  | 167.7 | 163.1  | 154.5 |
| 40°    | 170.2 | 219.8 | 284.0 | 332.6 | 352.4 | 332.6  | 284.0 | 219.8  | 170.2 | 165.6  | 150.5 |
| 42.5°  | 172.4 | 225.6 | 288.5 | 339.4 | 360.4 | 339.4  | 288.5 | 225.6  | 172.4 | 167.5  | 147.4 |
| 45°    | 174.4 | 231.3 | 294.4 | 345.6 | 367.9 | 345.6  | 294.4 | 231.3  | 174.4 | 169.3  | 146.1 |
| 47.5°  | 176.0 | 236.2 | 302.3 | 351.8 | 375.0 | 351.8  | 302.3 | 236.2  | 176.0 | 170.6  | 147.0 |
| 50°    | 177.6 | 241.2 | 310.3 | 357.7 | 381.8 | 357.7  | 310.3 | 241.2  | 177.6 | 172.0  | 147.9 |
| 52.5°  | 178.1 | 245.2 | 317.4 | 363.0 | 388.0 | 363.0  | 317.4 | 245.2  | 178.1 | 172.4  | 147.4 |
| 55°    | 178.0 | 248.3 | 324.2 | 367.9 | 393.3 | 367.9  | 324.2 | 248.3  | 178.0 | 171.5  | 146.4 |
| 57.5°  | 177.3 | 250.5 | 329.1 | 371.9 | 397.9 | 371.9  | 329.1 | 250.5  | 177.3 | 169.7  | 145.2 |
| 60°    | 176.4 | 252.3 | 334.1 | 376.9 | 401.4 | 376.9  | 334.1 | 252.3  | 176.4 | 167.5  | 143.0 |
| 62.5°  | 175.2 | 253.6 | 337.5 | 382.7 | 404.1 | 382.7  | 337.5 | 253.6  | 175.2 | 165.6  | 141.1 |
| 65°    | 173.3 | 254.5 | 341.6 | 388.6 | 406.9 | 388.6  | 341.6 | 254.5  | 173.3 | 163.4  | 138.4 |
| 67.5°  | 171.0 | 254.5 | 344.3 | 393.3 | 409.1 | 393.3  | 344.3 | 254.5  | 171.0 | 160.9  | 135.8 |
| 70°    | 168.4 | 254.2 | 346.5 | 397.3 | 410.3 | 397.3  | 346.5 | 254.2  | 168.4 | 158.1  | 132.7 |
| 72.5°  | 165.5 | 253.2 | 347.4 | 400.6 | 410.3 | 400.6  | 347.4 | 253.2  | 165.5 | 154.5  | 129.6 |
| 75°    | 161.9 | 251.4 | 347.8 | 402.8 | 410.0 | 402.8  | 347.8 | 251.4  | 161.9 | 151.0  | 126.0 |
| 77.5°  | 157.7 | 248.7 | 347.4 | 404.1 | 408.7 | 404.1  | 347.4 | 248.7  | 157.7 | 146.4  | 121.9 |
| 80°    | 153.4 | 245.6 | 346.1 | 404.1 | 406.3 | 404.1  | 346.1 | 245.6  | 153.4 | 142.0  | 117.5 |
| 82.5°  | 148.7 | 241.5 | 343.4 | 403.2 | 403.8 | 403.2  | 343.4 | 241.5  | 148.7 | 137.1  | 113.5 |
| 85°    | 143.8 | 237.1 | 340.7 | 401.9 | 402.8 | 401.9  | 340.7 | 237.1  | 143.8 | 132.2  | 108.9 |
| 87.5°  | 138.7 | 232.8 | 337.5 | 400.1 | 402.3 | 400.1  | 337.5 | 232.8  | 138.7 | 127.2  | 104.6 |
| 90°    | 133.3 | 228.2 | 333.5 | 397.3 | 401.4 | 397.3  | 333.5 | 228.2  | 133.3 | 121.9  | 100.5 |
| 92.5°  | 135.6 | 221.1 | 328.2 | 390.8 | 400.1 | 390.8  | 328.2 | 221.1  | 135.6 | 119.7  | 102.7 |
| 95°    | 130.9 | 216.7 | 323.8 | 386.7 | 400.6 | 386.7  | 323.8 | 216.7  | 130.9 | 116.6  | 100.9 |
| 97.5°  | 126.9 | 212.1 | 319.3 | 382.7 | 400.6 | 382.7  | 319.3 | 212.1  | 126.9 | 114.4  | 98.7  |
| 100°   | 123.5 | 208.6 | 314.0 | 377.8 | 399.7 | 377.8  | 314.0 | 208.6  | 123.5 | 114.4  | 97.4  |
| 102.5° | 121.0 | 205.5 | 309.0 | 372.5 | 398.3 | 372.5  | 309.0 | 205.5  | 121.0 | 115.7  | 96.5  |
| 105°   | 120.2 | 203.7 | 303.7 | 366.6 | 396.1 | 366.6  | 303.7 | 203.7  | 120.2 | 116.6  | 95.6  |
| 107.5° | 119.5 | 203.7 | 297.9 | 359.5 | 393.0 | 359.5  | 297.9 | 203.7  | 119.5 | 117.5  | 95.6  |
| 110°   | 119.7 | 207.2 | 292.0 | 352.4 | 388.6 | 352.4  | 292.0 | 207.2  | 119.7 | 117.5  | 96.5  |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   | 112.5° | 135°  | 157.5° | 180°  | 202.5° | 225°  |
|--------|-------|-------|-------|-------|-------|--------|-------|--------|-------|--------|-------|
| 112.5° | 120.2 | 213.6 | 287.6 | 345.6 | 384.0 | 345.6  | 287.6 | 213.6  | 120.2 | 116.6  | 97.8  |
| 115°   | 121.1 | 223.2 | 284.5 | 341.6 | 380.5 | 341.6  | 284.5 | 223.2  | 121.1 | 115.3  | 100.0 |
| 117.5° | 122.4 | 234.0 | 282.3 | 339.0 | 375.6 | 339.0  | 282.3 | 234.0  | 122.4 | 113.0  | 102.7 |
| 120°   | 123.5 | 243.9 | 281.8 | 336.3 | 371.0 | 336.3  | 281.8 | 243.9  | 123.5 | 111.7  | 105.8 |
| 122.5° | 124.2 | 255.1 | 283.6 | 334.1 | 366.3 | 334.1  | 283.6 | 255.1  | 124.2 | 109.9  | 110.4 |
| 125°   | 125.6 | 266.2 | 287.1 | 333.5 | 362.6 | 333.5  | 287.1 | 266.2  | 125.6 | 108.0  | 114.4 |
| 127.5° | 127.3 | 279.9 | 295.1 | 334.1 | 359.9 | 334.1  | 295.1 | 279.9  | 127.3 | 106.8  | 117.5 |
| 130°   | 130.9 | 291.1 | 309.0 | 337.5 | 359.5 | 337.5  | 309.0 | 291.1  | 130.9 | 106.4  | 118.8 |
| 132.5° | 134.6 | 294.8 | 329.5 | 343.8 | 361.3 | 343.8  | 329.5 | 294.8  | 134.6 | 106.8  | 120.1 |
| 135°   | 136.0 | 283.0 | 351.8 | 355.5 | 366.6 | 355.5  | 351.8 | 283.0  | 136.0 | 107.7  | 123.2 |
| 137.5° | 136.3 | 268.8 | 375.0 | 371.9 | 377.4 | 371.9  | 375.0 | 268.8  | 136.3 | 109.9  | 126.0 |
| 140°   | 139.1 | 260.7 | 400.1 | 395.7 | 395.2 | 395.7  | 400.1 | 260.7  | 139.1 | 115.3  | 127.8 |
| 142.5° | 146.1 | 257.3 | 426.1 | 422.0 | 418.0 | 422.0  | 426.1 | 257.3  | 146.1 | 121.6  | 129.1 |
| 145°   | 154.6 | 260.4 | 450.2 | 452.8 | 446.9 | 452.8  | 450.2 | 260.4  | 154.6 | 128.2  | 130.0 |
| 147.5° | 164.1 | 267.5 | 469.8 | 484.0 | 479.6 | 484.0  | 469.8 | 267.5  | 164.1 | 134.9  | 130.5 |
| 150°   | 174.6 | 273.4 | 483.1 | 515.3 | 515.3 | 515.3  | 483.1 | 273.4  | 174.6 | 142.4  | 132.7 |
| 152.5° | 183.2 | 277.4 | 482.2 | 541.6 | 547.5 | 541.6  | 482.2 | 277.4  | 183.2 | 149.5  | 134.4 |
| 155°   | 191.4 | 280.5 | 471.1 | 560.8 | 573.3 | 560.8  | 471.1 | 280.5  | 191.4 | 157.6  | 135.8 |
| 157.5° | 199.8 | 281.4 | 454.6 | 559.9 | 586.8 | 559.9  | 454.6 | 281.4  | 199.8 | 167.1  | 137.7 |
| 160°   | 208.3 | 279.9 | 435.4 | 536.3 | 570.2 | 536.3  | 435.4 | 279.9  | 208.3 | 178.6  | 140.8 |
| 162.5° | 217.7 | 277.7 | 410.9 | 506.0 | 534.1 | 506.0  | 410.9 | 277.7  | 217.7 | 191.6  | 146.1 |
| 165°   | 226.0 | 271.2 | 385.5 | 471.6 | 493.9 | 471.6  | 385.5 | 271.2  | 226.0 | 204.0  | 154.5 |
| 167.5° | 233.6 | 262.2 | 356.4 | 428.3 | 445.6 | 428.3  | 356.4 | 262.2  | 233.6 | 218.3  | 170.2 |
| 170°   | 238.7 | 257.6 | 324.2 | 379.6 | 388.6 | 379.6  | 324.2 | 257.6  | 238.7 | 233.1  | 191.6 |
| 172.5° | 244.6 | 256.7 | 295.1 | 324.2 | 326.4 | 324.2  | 295.1 | 256.7  | 244.6 | 244.8  | 218.9 |
| 175°   | 248.9 | 256.0 | 272.8 | 282.7 | 281.4 | 282.7  | 272.8 | 256.0  | 248.9 | 249.6  | 242.5 |
| 177.5° | 249.1 | 252.0 | 257.6 | 259.5 | 257.6 | 259.5  | 257.6 | 252.0  | 249.1 | 249.2  | 250.1 |
| 180°   | 250.0 | 250.0 | 250.0 | 250.0 | 250.0 | 250.0  | 250.0 | 250.0  | 250.0 | 250.0  | 250.0 |

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**CANDELA DISTRIBUTION (continued):**

|        | 247.5° | 270°  | 292.5° | 315°  | 337.5° | 360°  |
|--------|--------|-------|--------|-------|--------|-------|
| 0°     | 185.5  | 185.5 | 185.5  | 185.5 | 185.5  | 185.5 |
| 2.5°   | 185.4  | 185.4 | 185.4  | 184.8 | 184.8  | 185.4 |
| 5°     | 184.8  | 185.4 | 184.8  | 183.9 | 184.5  | 184.8 |
| 7.5°   | 183.9  | 184.8 | 183.9  | 183.2 | 183.6  | 184.5 |
| 10°    | 182.6  | 184.5 | 182.6  | 182.3 | 182.3  | 183.6 |
| 12.5°  | 181.4  | 182.6 | 181.4  | 180.8 | 181.4  | 182.3 |
| 15°    | 179.5  | 180.5 | 179.5  | 179.2 | 179.5  | 180.8 |
| 17.5°  | 177.3  | 178.3 | 177.3  | 177.3 | 178.3  | 179.2 |
| 20°    | 174.6  | 175.5 | 174.6  | 175.2 | 176.4  | 177.5 |
| 22.5°  | 172.0  | 172.0 | 172.0  | 172.8 | 174.6  | 175.6 |
| 25°    | 169.3  | 168.4 | 169.3  | 170.6 | 172.4  | 173.5 |
| 27.5°  | 165.6  | 164.4 | 165.6  | 168.0 | 170.6  | 171.5 |
| 30°    | 162.2  | 160.9 | 162.2  | 164.7 | 168.7  | 169.3 |
| 32.5°  | 158.1  | 156.9 | 158.1  | 161.6 | 165.6  | 166.8 |
| 35°    | 153.6  | 152.3 | 153.6  | 158.1 | 163.1  | 165.9 |
| 37.5°  | 149.5  | 148.3 | 149.5  | 154.5 | 163.1  | 167.7 |
| 40°    | 145.7  | 146.4 | 145.7  | 150.5 | 165.6  | 170.2 |
| 42.5°  | 141.1  | 145.7 | 141.1  | 147.4 | 167.5  | 172.4 |
| 45°    | 137.1  | 139.9 | 137.1  | 146.1 | 169.3  | 174.4 |
| 47.5°  | 133.1  | 130.9 | 133.1  | 147.0 | 170.6  | 176.0 |
| 50°    | 128.2  | 123.8 | 128.2  | 147.9 | 172.0  | 177.6 |
| 52.5°  | 123.2  | 118.8 | 123.2  | 147.4 | 172.4  | 178.1 |
| 55°    | 117.9  | 113.0 | 117.9  | 146.4 | 171.5  | 178.0 |
| 57.5°  | 113.9  | 108.0 | 113.9  | 145.2 | 169.7  | 177.3 |
| 60°    | 111.7  | 102.7 | 111.7  | 143.0 | 167.5  | 176.4 |
| 62.5°  | 112.6  | 99.6  | 112.6  | 141.1 | 165.6  | 175.2 |
| 65°    | 113.0  | 95.2  | 113.0  | 138.4 | 163.4  | 173.3 |
| 67.5°  | 108.9  | 90.3  | 108.9  | 135.8 | 160.9  | 171.0 |
| 70°    | 104.0  | 84.4  | 104.0  | 132.7 | 158.1  | 168.4 |
| 72.5°  | 100.0  | 78.6  | 100.0  | 129.6 | 154.5  | 165.5 |
| 75°    | 96.5   | 72.0  | 96.5   | 126.0 | 151.0  | 161.9 |
| 77.5°  | 92.9   | 64.0  | 92.9   | 121.9 | 146.4  | 157.7 |
| 80°    | 89.4   | 56.3  | 89.4   | 117.5 | 142.0  | 153.4 |
| 82.5°  | 85.4   | 49.1  | 85.4   | 113.5 | 137.1  | 148.7 |
| 85°    | 81.7   | 42.6  | 81.7   | 108.9 | 132.2  | 143.8 |
| 87.5°  | 78.2   | 38.5  | 78.2   | 104.6 | 127.2  | 138.7 |
| 90°    | 74.6   | 38.5  | 74.6   | 100.5 | 121.9  | 133.3 |
| 92.5°  | 71.5   | 38.0  | 71.5   | 102.7 | 119.7  | 135.6 |
| 95°    | 70.2   | 41.1  | 70.2   | 100.9 | 116.6  | 130.9 |
| 97.5°  | 69.6   | 45.1  | 69.6   | 98.7  | 114.4  | 126.9 |
| 100°   | 68.9   | 50.4  | 68.9   | 97.4  | 114.4  | 123.5 |
| 102.5° | 68.3   | 55.0  | 68.3   | 96.5  | 115.7  | 121.0 |
| 105°   | 68.3   | 59.4  | 68.3   | 95.6  | 116.6  | 120.2 |
| 107.5° | 69.3   | 64.0  | 69.3   | 95.6  | 117.5  | 119.5 |
| 110°   | 70.5   | 68.0  | 70.5   | 96.5  | 117.5  | 119.7 |

TEST NUMBER: 18648A

CATALOG NUMBER: 650-CF2/26

**CANDELA DISTRIBUTION (continued):**

|        | 247.5° | 270°  | 292.5° | 315°  | 337.5° | 360°  |
|--------|--------|-------|--------|-------|--------|-------|
| 112.5° | 72.4   | 71.5  | 72.4   | 97.8  | 116.6  | 120.2 |
| 115°   | 75.1   | 75.5  | 75.1   | 100.0 | 115.3  | 121.1 |
| 117.5° | 78.6   | 80.1  | 78.6   | 102.7 | 113.0  | 122.4 |
| 120°   | 84.4   | 84.8  | 84.4   | 105.8 | 111.7  | 123.5 |
| 122.5° | 92.1   | 90.3  | 92.1   | 110.4 | 109.9  | 124.2 |
| 125°   | 100.0  | 96.1  | 100.0  | 114.4 | 108.0  | 125.6 |
| 127.5° | 107.7  | 102.4 | 107.7  | 117.5 | 106.8  | 127.3 |
| 130°   | 115.3  | 108.9 | 115.3  | 118.8 | 106.4  | 130.9 |
| 132.5° | 123.2  | 117.0 | 123.2  | 120.1 | 106.8  | 134.6 |
| 135°   | 130.5  | 124.7 | 130.5  | 123.2 | 107.7  | 136.0 |
| 137.5° | 136.7  | 132.2 | 136.7  | 126.0 | 109.9  | 136.3 |
| 140°   | 141.1  | 138.9 | 141.1  | 127.8 | 115.3  | 139.1 |
| 142.5° | 143.9  | 144.8 | 143.9  | 129.1 | 121.6  | 146.1 |
| 145°   | 145.7  | 149.5 | 145.7  | 130.0 | 128.2  | 154.6 |
| 147.5° | 147.0  | 153.2 | 147.0  | 130.5 | 134.9  | 164.1 |
| 150°   | 147.0  | 155.4 | 147.0  | 132.7 | 142.4  | 174.6 |
| 152.5° | 145.7  | 155.0 | 145.7  | 134.4 | 149.5  | 183.2 |
| 155°   | 143.0  | 152.8 | 143.0  | 135.8 | 157.6  | 191.4 |
| 157.5° | 141.1  | 148.3 | 141.1  | 137.7 | 167.1  | 199.8 |
| 160°   | 141.1  | 145.2 | 141.1  | 140.8 | 178.6  | 208.3 |
| 162.5° | 142.0  | 144.2 | 142.0  | 146.1 | 191.6  | 217.7 |
| 165°   | 144.2  | 145.2 | 144.2  | 154.5 | 204.0  | 226.0 |
| 167.5° | 150.5  | 148.3 | 150.5  | 170.2 | 218.3  | 233.6 |
| 170°   | 163.4  | 156.3 | 163.4  | 191.6 | 233.1  | 238.7 |
| 172.5° | 188.9  | 173.7 | 188.9  | 218.9 | 244.8  | 244.6 |
| 175°   | 223.2  | 204.0 | 223.2  | 242.5 | 249.6  | 248.9 |
| 177.5° | 248.7  | 240.8 | 248.7  | 250.1 | 249.2  | 249.1 |
| 180°   | 250.0  | 250.0 | 250.0  | 250.0 | 250.0  | 250.0 |

(END OF REPORT)